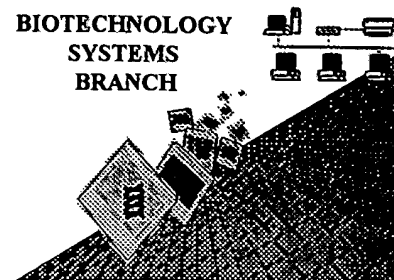


Fitony

RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 08/836,734
Art Unit / Team No. : 1634
Date Processed by STIC: 6/16/98

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

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THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

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ARTI SHAH 703-308-4212

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:21

INPUT SET: S26725.raw

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: BECKMANN, JACQUES
RICHARD, ISABELLE

(ii) TITLE OF INVENTION: LGMD GENE CODING FOR A CALCIUM DEPENDENT PROTEASE

(iii) NUMBER OF SEQUENCES: 67

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: NIXON & VANDERHYE P.C.

(B) STREET: 1100 NORTH GLEBE ROAD

(C) CITY: ARLINGTON

(D) STATE: VIRGINIA

(E) COUNTRY: U.S.A.

(F) ZIP: 22201-4714

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/836,734

(B) FILING DATE: 02-JUL-1997

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: EP 94402668.1

(B) FILING DATE: 22-NOV-1994

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: WILSON, MARY J.

(B) REGISTRATION NUMBER: 32,955

(C) REFERENCE/DOCKET NUMBER: 960-29

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (703) 816-4000

(B) TELEFAX: (703) 816-4100

Does Not Comply
Corrected Diskette Needed*See especially pp. 2, 23, 31*

ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:23

INPUT SET: S26725.raw

45 (2) INFORMATION FOR SEQ ID NO: 1:

46

47 (i) SEQUENCE CHARACTERISTICS:

48 (A) LENGTH: 3018 base pairs

49 (B) TYPE: nucleic acid

50 (C) STRANDEDNESS: double

51 (D) TOPOLOGY: linear

52

53 (ii) MOLECULE TYPE: genomic DNA

54

55 (ix) FEATURE:

56 (A) NAME/KEY: misc_feature

57 (D) OTHER INFORMATION: /label= FIGURE 8a

58

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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64

65 CTTACGAGAA CCTATCGATG ATGTTAAGTG AGGATTTTCT CTGCTCAGGT GCACTTTTTT

66

67 TTTTTTTTAA GACGGAGTCT CTTTCTGTCA CCTGGGCTGG AGTGCAGTGG CGTGATCTGG

68

69 GTTCACTACA ACCTCTCCCT CCTGGGTTCA AGCAATTCTT CTGTCTCAGC CTCCCAAGTA

70

71 GCTGGGATTA CAGGCACCCC CCGCCACACC CGGCTTATTT TTGTATTTTT AGTAGAGACA

72

73 GGGTTTCACT ATTGTTGTCC ATGCTGGTCT CGAAGTCGTG ACCTCATGTG ATCCACCCGC

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75 CTCGGCCTCC CAAAGTGCAG AGATTAGAGA CGTGATCCAC ATGGCCCAGC AGGACCACTT

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77 TTTAGCAGAT TCAGTCCCAG TGTTTATTTT GTGGATGGGG AGAGACAAGA GGTGCAAGGT

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79 CAAGTGTGCA GGTAGAGACA GGGATTTTCT CAAATGAGGA CTCTGCTGAG TAGCATTTTC

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81 CATGCAGACA TTTCCAATGA GCGCTGACCC AAGAACATTC TAAAAAGATA CCAAATCTAA

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83 CATTGAATAA TGTTCTGATA TCCTAAAATT TTAGGACTAA AAATCATGTT CTCTAAAATT

84

85 CACAGAATAT TTTTGTAGAA TTCAGTACCT CCCGTTACCC CTAAGTAGCT TTTTGTCAAT

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87 ATTGTTTTCC ATTCATTTGA TGGCCAGTAG TTGGGTGGTC TGTATAACTG CCTACTCAAT

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90

91 ATTTTCTGGC AACACCAGCA CTTTCATGGCA ACAGAAATGT CCCTAGCCAG GTTCTCTCTC

92

93 TACCATGCAG TCTCTCTTGC TCTCATACTC ACAGTGTTTC TTCACATCTA TTTTGTAGTT

94

95 TCCTGGCTCA AGCATCTTCA GGCCACTGAA ACACAACCTT CACTCTCTTT CTCTCTCCCT

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97 CTGGCATGCA TGCTGCTGGT AGGAGACCCC CAAGTCAACA TTGCTTCAGA AATCCTTTAG

global error

↓

insert
cumulative
base
totals

etc.

Per 1.822(h) of Sequence Rules insert
cumulative base totals at end of each line

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:24

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107 TAGCGCATCT GTGGCTCCAA GGACAGCGGC TGAGCCCCGG TCCCAGGGC CAGTTCCTCA
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119 CGGCAGCTCA GCTGTGCACA TGGGCACTGG GGAAGGATC CTGGCAGCAG CTCTGCTGGG
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122
123 TCAGCAAAAT CCAGAGGGAG AGCGCAGGAG GTGGGGTGAT TCTTATGCTC TGGCTCTTTC
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127 CATCCTGTAA AAATAAATAT TCCTTTCTCA GAACAAATTC CAGACAGCCC AGATGTACCT
128
129 GTTCGTTTTA ATATTATTCA TCTTGGTAAG ATTATTTTCT TTTCTCTGGC TAAATCATG
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132
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134
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136
137 TAGAGTGAAA TATATCTAGT GGGCACATGA CAGAGCCCGG ATTAATACTT TGTTTTAGGA
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139 AACTCTCCCA GCCTCTGGGT TTCATTTACA GTGATCGCCA GGAGGGAAAT CACATTCCCC
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env*

RAW SEQUENCE LISTING
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TIME: 13:36:26

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155 ACCAGCCTGG GCAACAGGGT GAAAACCTAT CTCTTTTGTA CTAAAAATTC AAAAAATTAT
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↓164 (2) INFORMATION FOR SEQ ID NO: 2:
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166 (i) SEQUENCE CHARACTERISTICS:

167 (A) LENGTH: 11451 base pairs

168 (B) TYPE: nucleic acid

169 (C) STRANDEDNESS: double

170 (D) TOPOLOGY: linear
171172 (ii) MOLECULE TYPE: genomic DNA
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174 (ix) FEATURE:

175 (A) NAME/KEY: misc_feature

176 (D) OTHER INFORMATION:/label= FIGURE 8b
177
178
179180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
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189
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192 TCAATAAATA ATAGCTACTG CGGCCGGGCG CGGTGGCTCA CATCTGTAAT CCCAGCACTT
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198 AGTCCCAGCT ACTCGAGAGG CTGAGGCAGG AGAATCACTT GAACCCCGGA GGCAGAGGTT
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Same

RAW SEQUENCE LISTING
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TIME: 13:36:30

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259
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261
262 CTGCCTGACC CTGAACCAGC ACCTTCTTTT CCGAGTCATA CCCCATGATC AAAGTTTCAT
263
264 CGAAAACCTAC GCAGGGATCT TCCACTTCCA GGTGAGGTAA TGAGAGTGTA GTTAAGAGGG
265
266 CCAGCGGCAG GCCACCCACC GCTGGTCTCC TGGCCTTGAC TTCCCAGAAG CTGGAGGAAA
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268 CTTCCACCC ATCTACCCGC AGCGGCAACA GTCGGCATGG ACCCCCTTAA GGCTTCAAGC
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271
272 TGTCCCAGAA AGACAGGAAG ACATCCTGTT TACTGTGGGT CTATTTTTTGT CTTTGCAGCT
273
274 GTCTGGCTGC TTTTATTGCC TGCAGCCCTT CTCAAGTAGG TCCCTAAGAT ATTAGCACTG
275
276 TGACACCACA GGACCCTTCA GGTTGTACAG GAACCCCTGT CCAGGGCTCC TGTATACTTC
277
278 TTCCTCTCTA AGGCATGGCG GTACCAAGGC TATCACTCCT CTCTTCCAAG CCCTGGAAGA
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280 AGAGTCTGCT TAACCTGGGG ATCAGGCTTC TTGTTTGCCC TAGAACTGAA TCTGATGGTT
281
282 CTAGAATCCA TCCAGCTACT GGAAATTTTC TGGGTCCCAG TCACCTTGGC ATAGAGCTGG
283
284 TGCTAGAGCA GAACCAAAC GAATTCTACC TGTGAGGGTC TCGTAGCTTC CGGGATGCTG
285
286 GGGAGTCAGC CTGTCTCCAG CTTCAAAGGC TCCCTCATGT CCCAGGATGA CCCACATTAT
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288 CAGTTCTTGC TCCCCGGGTC TTGCACCTCA GCACGGAAGG CCTCAGAAAA GGTCTGTCTC
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292 CTAAAGGGCC TTACATACAA ATATCAGATA GATTTCTGTT CTCATTTCAA TGAGGGAGAA
293
294 AGTGCCATTG AAAAGGAGAC TAAACCACAT TTGGCCCTTT TCAGTTCAAA CTGATTCAAT
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296 CAAAAAGAG CGACATCCAA ACTTGAAATG ATTGAACAAT GTTCCTGCTA CAGCTAGAAT
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Done

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314 CTGGCGCTAT GGAGAGTGGG TGGACGTGGT TATAGATGAC TGCCTGCCAA CGTACAACAA
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316 TCAACTGGTT TTCACCAAGT CCAACCACCG CAATGAGTTC TGGAGTGCTC TGCTGGAGAA
317
318 GGCTTATGCT AAGTAAGCAA CACTTTAGAA TGTGAGGTGG GGCTAGAGGT GAGAAAGTGG
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322 ATGTGTGGGC ATGCAAGTCC AACTGTGACC CAAAGTTAGA GATCAGTTCC AGGCAACAAC
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324 AGCTCTAACT AAAAACATTA AATTTAAGAG TAGAAATGAA GATTTGCATA GAAGACCTTT
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356 TGTACAAGAT CATGAAGAAA GCCATCGAGA GAGGCTCCCT CATGGGCTGC TCCATTGATG
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RAW SEQUENCE LISTING
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TIME: 13:36:33

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370 CAGTCACTGG GCTTTCACCA CACCTCCCCG CTTGAGACGT GGGCTTTGTG TTGTTACCTG
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372 GGAGAAGCTA AGCCTGCAGC ACCTTTCAGT GCAAAGAAAT GCTGTGAACT GAGACAGGAG
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374 CCAAGGGTAG GGAGATGGCC GCCCATGGCC AGGCCTCCTT CAGGGGGCAT GCCTTCCCTG
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414 TTTGGTTTTT TGGTTTTTTT TTTTTTTTGG AAACCAAGTC TTGCTCTATT CCCTAGGCTG

same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:34

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418 TCCTGCCTCA GCCTCCCGAC ATAGCTGGGA TTACAGGCAC ACACCACCAC ACATGGCTAA
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420 TTTTGTATT TTTTAGTAGA GACGGGGTTT CACCATGTTG GCTGGAATGG TCTTGAAC TC
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422 CTGACCTCAA GTGATCCACC TGCCTCAGCC TCCCAAAGTG CTGGGATTAC AAGTGTAAGC
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424 CACCACACCC GGCCTAGTTT GATATTCTTA ATGTGCCCAA AGTATTCTCC TGTAACATTT
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426 TTTAATAGCT ACACAATATT CAAACACACA GATATGTTAT AATTTATTTA CCAATACCC
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430 AAATGCTATA ACGAACATCC CAATAGATAC ATCTTTGTAT ACATCCATGG TGACTTCCAT
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434 AGAGTCATTT CAAGCAGCTT CCTAGGGTCT TAGAACTTAA GGATTAATGA GTCTTCCCGC
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444 CCCTTCTCCC AAGGATCCCC CATGGCTGCA ACTTGGAAT TTCTGCAAAT GGAAGAGCTA
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446 CTCCTTAGGC ACGGTCATGT CTGAGCAGGG ATCTCCTCGG GCTTCTTAG AATTCTCTCC
447
448 CTGGGCACTG GGA CTCTTGA TTTCTTGAAT ATTATGTTCC AGGTGGGTGT GGAGGAGGTG
449
450 AGGGGATGTA AAGAAGGCTA GACTTGGCCA GGCGCAGTGG CTCATGCCTG TAATCCCAGC
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452 ACTTTGGGAG GCTGAGGCGG GTGGATCACC TGAGGTCAGG AGTTCGAGAC CAGCCTGGCT
453
454 AACATGGTGA AACCCCGTTT CTACTAAAAA TACAAAAAAT TAGCTGAGCA TGGTGGCAGC
455
456 TGCCTGTAAT CCCAGCTACT CGGGAGGCTG AGGCAGGAGT ATCGCTGGAA CACGGGAGGC
457
458 AGAGATTGCA GTGACCCGAG ATCGCGCCAC TGCACTCCAG CCTGGGCGAC ACAGCAAGAC
459
460 TCTGTCTCAA AAAACAAAAA AGAAAGAAAA AAAGGAAAAA CTAAGACTTA CATGTGTCAC
461
462 TTAACCCCTT TTCTCAAACC TCTTCTCTT CCAGGAATAG TCAACCCCTG GATGGCTTCA
463
464 GGGGAAGGGG GATCCTGAAG CCCAGGGCAG CCTCCAATC TACCCCTTCC TCCTTTGAAG
465
466 GATACTAAGG GGTCCAGAAA GGAGGGGCAG GACACTGTTA CCCACCCAC ATCCCAGCAT
467

same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:36

INPUT SET: S26725.raw

468 CCACATTGCT CTCTGATGGT CAGGACAGAG CCTTCTCAGG GAGACCAGCC TGTCTGGAGC
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470 TGTGTCTCTT GGCACCTCTTA AAGGGCCACT GAAGGTCCGT TCGTGGTCGT GAGGCACACT
471
472 TTCAGGGAGC AGAGTGGTCT GTGTCTTCAC AGAGCCCGGA AAATGAACTA GTATGAACTT
473
474 TGCCTCCAAG CAGCAGAACT TCTGTTCCCC CGCCCCTAAT GGGTTCTCTG GTTACTGCTC
475
476 TACAGACAAT CATTCCGGTT CAGTATGAGA CAAGAATGGC CTGCGGGCTG GTCAGAGGTC
477
478 ACGCCTACTC TGTCACGGGG CTGGATGAGG TAAGCCTGGT GGGGCTTGGT GGGGCAAGGG
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480 CACCCTCCTG GGTAAACCTC ATGAAGTCAG GACTTAGCTG TTGGGGCCCC TGCCCTGTCT
481
482 GCAGAGCTTG CCTCCAATCA GGACATTCAG TTCAAGGTCC AAGCCACGCC TGGGAGCAGA
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492 CAAAATCTGC AGATGCTCAA GTCCCTTCTG TAAATGGAG TAGTATTTGC ATATAACCTA
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494 TGCACATCCT CCCATATACT TTAAGTCATC TCTGGATTAC TTACGATACC TAACACAATG
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496 GAAATGCTAT GTAAATAGTT ATTGCACTGC ATTGGGTTTT TTTGGTATTA TTTTCTGTTG
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501
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516 TCCGCCCCACC TCGGCCTCTC AAAGTGCTGG GATTACAGGC GTGAGCCACC ACGCCTGGCC
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520 CTCCTGTTTA TGCCTCACCT CCTCCCCGA AGCTCATACG GCAGGATGTT CCTGAGAAAA

Done

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TIME: 13:36:37

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526 CAGGCAGAAC ACCCTCGCGT AAGAGATTTG CCCCCAGCC CCGTCCCAGC CCTCAGCTAG
527
528 ACAGAAGATT CCCTTTCCAG AGAGGCTGCA GAGCATGAGA GCTCTTTCTG TGTGCTTAAG
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532 GAGTGGAACG GTTCTTGAG TGATAGGTAG GTGAGGGGAC CCCACGGGAT TGGCGGTGGC
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546 CTGGGACTTG TTTTGGGCA AGTGCTGAGC CATTGCTAAG ATTCCCCTTA CCCGTGCTTG
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555
556 GACTCAGTCG AGGAGAAGGA CCGCACCCAG GCAGCCTGGG CCCCTCGGCT CCTGTACTTA
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558 TTTACTGCTG GGTACTTCCT AGCCCAGCAT GTAATTACTG GTTCGTTTCTG TCATTGCTTT
559
560 AGTAAATGTT TCTTGGGCAC CTACTACATA GGAGGCACAG GTCAAGGCAC TGGGGATATT
561
562 CTTTCTACCC ACCCCCTCCC TTGATACACT GTGATTAGGG ACTGACCGAT C
563

*same*564 (2) INFORMATION FOR SEQ ID NO: 3:
565

566 (i) SEQUENCE CHARACTERISTICS:

--> 567 (A) LENGTH: 1834 base pairs
568 (B) TYPE: nucleic acid
569 (C) STRANDEDNESS: double
570 (D) TOPOLOGY: linear
571

572 (ii) MOLECULE TYPE: genomic DNA

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:39

INPUT SET: S26725.raw

573
574 (ix) FEATURE:
575 (A) NAME/KEY: misc_feature
576 (D) OTHER INFORMATION:/label= FIGURE 8c
577
578 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
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581 CGCGATCTTG GCTCACTGCA ACCTCCGCCT CCCGGGTTCA AGTGATTCTT CTGCCTTAGC
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583
584 ATTAGGACGG GGTTCACCA TATTGGCCAG GCTGGTCTCG AAATCCTGAC CTTGTGATCC
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586 GCCCACCTCG GCCTCCCAA GTGCTGGGAT TACAGGTGTG AGCCATTGCG AGCAGCCCAG
587
588 AACTCAATTC TTAACCTTTA AAGTATGATG AGAAGAAGGA TCAAGCCCTC ACCAGCCCAT
589
590 TTAAGGAGTT TAGGCTCAGT CTTGAGGATG TGAGAAGTCA TTGCTATTGG GTTTCACACT
591
592 GAGGTTAACA GGTGAAGTCA GCATTTTGGT AGTTCACAGC AGCTGCAACT CTTTGTATTT
593
594 CTCTGATACC TCCTGTCCCA ACCTACATCA GGCCTTCCCT TCTTCCTGCT TCCTTAATTC
595
596 CTCCATTTTC CCACCAGATG GAAGGACTGG AGCTTTGTGG ACAAAGATGA GAAGGCCCGT
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598 CTGCAGCACC AGGTCACCTGA GGATGGAGAG TTCTGGTGAG TCCAGAACCC AGGAAGACCC
599
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601
602 TCAGATTCCA GCCCTTGGGA GATCTTGGCT GTGTTCTCCT CCAGCCCAAG GCCCAGCAAG
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611
612 GAGAATTTTC AAGTCTCAGC TTAAGGAGAG CCCCCTAAGT TCCCCGAGGA CTGGGATTAA
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618 ATCTTGGCTA ACACGGTGAA ACCCTGTCTG TACTAAAAAT ACACAAAAAA AGTAGCCGGG
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620 CGTGGCAGCG TGCGCCTGTA GTCCTAGCTG CTGGGGAGGC TGAGGCAGGA GAATCACTTG
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622 AACCTGGGAG GCAGAGGTTA CAGTGAGCCC AGATTGCGCC ACTGCACTCC AGCCTGGGCG
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624
625

same

RAW SEQUENCE LISTING
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629
630 CCTCGCTATA TTTCTCGGGC TGGTCTCAA CTCTGGGCT CAAGCGGTCC TCCCACCTTG
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632 GCCTCCCAAA ATGCTGGCAT GTGGGCCTGG TCAACATATG GGACCCCAAC TCTACAAAAA
633
634 ATTTTAAAAAT TAGCCAGATG TGGTGGCGTG TGCCTGTAGT CCCAGCTACT TGGGAGGCTG
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636 AAGCAGGGGG TCACTTGAGC CCAGGAGGTT GAGGCTGCAG TGAACATGA TTGTCGTTCA
637
638 CTTTCTTCT GAACGTGAGA TTAAGTGTAG TCAGCAATTT GGCTTAGGAT TATTTATTCA
639
640 GAATTTTAA CCGTCACGTT GCGGCAAACC AGGT
641

same
↓

(2) INFORMATION FOR SEQ ID NO: 4:

643

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14664 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

649

(ii) MOLECULE TYPE: genomic DNA

650

(ix) FEATURE:

(A) NAME/KEY: misc_feature

(D) OTHER INFORMATION: /label= FIGURE 8d

655

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

656

658 AGGAGGTGGA GGTTCAGTG AGCCAAGATC ATGCCACTGC ACTCTAGCCT GGGCAACAGA

659

660 GCGAGACTCT GTCTCAAAA ATACACACAC ACACACACAC ACACACACAC ACACACACAC

661

662 ACACACATAT ATATACACAC ATATATATAC ACACACATAT ACACACACAC ACGTCTGTAT

663

664 ATATATGTGT GTGTGTATAT ATACACACAC AACTATTCT ATATATTCTT GTAGAGCTAT

665

666 GTGTGTCTCC TGTGCTATTG AGCATGAGCC CTTTTTTTTT TTTTTTTTTT TTGAGACAGA

667

668 GTCTCACTTT GTCGCCAGG CTGGCATAA ATGGCGCAAT ATCGGCTCAC TGCAACCTCC

669

670 GCCTCCTGGG TTCAAGTGAT TCTCCTGCCT CAGCCTCCA AGTAACTAGG ATTACAAGTG

671

672 CCCGCCATAA TGCTCAGCTA ATTTTGTAT TTTCAGTAGA GATGGGGTTT CACCATGTTG

673

674 GCCAAGCTGG TCTCAAATC CTAGCCTCAG GTGATCCACC TGCCTCAGCC TCCCAAAGTG

675

676 CTGGGATTAC AGGCATGAGC CACAGCACCC TGGTGAGCAC TAGAGCTTAT TTCTTCTATC

677

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RAW SEQUENCE LISTING
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TIME: 13:36:42

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678 TAACTGTATT TTTGTATCCA TTAGCCACCC TCTTTTCATC CTCCCCTCTC CTTCCCTTCC
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681
682 CACATATGAG TGAGAGCATG CGACATTTAT CTTTCTGGCC CTGGCACATT TTTGAATCAT
683
684 TGTTAGAAAA GATGATGGTT TGGAGTAGAT ACATCAGAAG TGACAGCGTT TGCCCTAAAA
685
686 AGGAAAGACA GGCTCCTCTG GGACCCTGAC CAAGTTCCTG TGAACATTTT TATTATTGTG
687
688 CTGTGTTAGT CCTGGGGTCT TCCGTTCCCA GCCCTCCTCA CCTGCTCCCA TATGGCTCTC
689
690 TCTCTTCTTC CAACCTCTCA GGATGTCCTA TGAGGATTTT ATCTACCATT TCACAAAGTT
691
692 GGAGATCTGC AACCTCACGG CCGATGCTCT GCAGTCTGAC AAGCTTCAGA CCTGGACAGT
693
694 GTCTGTGAAC GAGGGCCGCT GGGTACGGGG TTGCTCTGCC GGAGGCTGCC GCAACTTCCC
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696 AGGTGGGAGA TGCTCTTGAT GGGGGGAGGG TCTAAGCCGA AAAAGTTCCA GGCAGAAGAA
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698 GCCTAACTAG TGCTTATTAA GTCTCTCTGT TCCAGACGTC CACTATCTTA TTAAACCTTC
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700 CCTGTTTTAC TGAGAAGGAA ACCACCATGC TGAGAAGTTT GCAATAGGGA GCTGGGTAGC
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702 AACTTTGGAA GCAGGAACCT GTGGGAACAA TGCAGATGCT GCTTGGACTT ACGATGAGGT
703
704 TATGTCCAGA TAAGCCCATC CATCTTTTGA AAATACCCTA AGTGAAAAGT GCATCCAATA
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707
708 CTTGACCTTA AGCCTAAAGT TGGGCCAAAT CATCTAACTC CAAAGCCTAT TTTACAAAGA
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711
712 AGAATGGTTG TACGGGTACT CGAAATCCAG TTTCTACTGA ATGTGCATCT CTTTCACATT
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714 GTAAAGTTAA AAAATTGTAG CCGAACCATC CTAAGTCAGG GACTGTGAGT ACTGTGTCAG
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717
718 GATGATGAAA ACCTAGACCA AGTCAGTAGC AGCAGAGATG GAGGGGAGAC AGCAGATTTA
719
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721
722 GGACCTGACA ACATTGCAAC ATAAGACACA CAAGAAGATC GGGTGGGTGG CTCATGCCTA
723
724 TAATCCCAGC ACTTTGGGAG GCAGAGCCAG GAGGATCACT TGAGCCCAGG AGTTCAAGAC
725
726 CAGCACAGGC AACATAGTGA CACCTCATCG TTACCCAAAA TAAAAAATAA AATGAGGTGG
727
728 GAGGATTGCT TGAGCTCGGG AGGTTGAGGC TACAATAAAC TGTGATCATG CCACTGCACT
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730 CCTGCCTGGG TGACAGAGTG AGACCCTGCC TCAAAAAAAA AAGACACACA AGAGAAAAAT

same

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TIME: 13:36:44

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735
736 CATCGGATGC GCATATTAGA TGGCACTTGG TGATATGATA AGAACTCAA AAATATTTGA
737
738 GGAATAAAGG AAAGAAGAGG CCAGACGTGG TGGCTTATGC CTGTAATCCC AGCACTTTGG
739
740 GAGGCTGAGG CAGGCGGATC ACTTGTGGTC AGGAGTTCGA GACCAGCTTG GCTAACATGG
741
742 TGAAAACCCA TCTCTACTAA AGATACAAAA ATTAACCGGG GATGATGGTG GGTGCCTGTA
743
744 ATCCCAGCTA CTTGGGAGGC TCAGTCAGAA GAATCGCTTG AACCAGGAG GCGGAGGCTG
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746 CAGTGAGCCG AGATCGCGCC ACTGCACTCT AGCCTGGGCA ACAGAGCCAG ACTCCGTCTC
747
748 AAAAAAAAAA AAGTGAGAGA GATTGAGGCT GGGATATATG GCTCAGGCAT CATGCGCGTG
749
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752 TGAGAGGAGA AGAGGCCAG GACCAGATTC TAGTCACCAA CAGCGTTTAA GGGGCAGGTA
753
754 AGGAAAACAA AACCATCAGC AAAGACTGAG AATGAAAGCC CAGAGAGGAA GGAAAAGCCA
755
756 CACATACAAT CAGTACAGCT CCATCTGAAT AAAGGTAGCG CCCCCCCCCC CCCAAATCAT
757
758 TAGAGAAATG CCTGATTGCG TTTTCTGTGG ATTTTTCCTA AGAACCTAGA TGTGGGGAAT
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762 GCGTGCTCCC TTTCTGGGGG TGCAGATACT TTCTGGACCA ACCCTCAGTA CCGTCCGAAG
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767
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782 CCTGGTGGGG TTTGTGGGCA GGAATTGTGA TAGGAGAGGG CCTTGCCTGT TGTTATTTCC
783

same

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TIME: 13:36:45

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790 CTTGGGATGG AGGAATCACT TCCCTCAGAA CCCAGCCAAG TCCTCTAGGC CTCCTTGGGG
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811
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836 TGCAGGGGAC AGATGGTGCA GGGGAGAATG GGCCTGGCA GAGGGAATGG GAGTCTGGGC

same

RAW SEQUENCE LISTING
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TIME: 13:36:47

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841
842 CTGGAAAGGA GAAGCAATTT GAACAATCGG AGGGAACAAG GCCACAGGAA GGGATGACAA
843
844 GAGCCGCAGC GAACACTGGA TTCTGAGACT GGATAACATT GGATTTTACA CATAGAGAAA
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846 AGAAAGTAAG CTGGTGCCCG ACCTGGTGTT GACACTTGA TCCTCCACTT ACCAGCGGGG
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848 TGACCTGGAC AATTTCGTGA ATCCCTCTCA CTCAGTTTCC TACTCAGTAA AACGGGGATG
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862 GCACAGAGTG CTGTGTGTTG GGCTCTGTGT GTTGAGGAGT CTTGTGACTG CCTTGGGGCT
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866 GGACAAATGC CCCTCTGAAC TGTCTTCTGG GCAGTGACAG TCATGGTCAT AATCCTGACC
867
868 CTGAGCCAGT GCCAGGTCTC CAAGTGCCTT CTGAATGACC ACAGGCGATT GGTTTTAGTG
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same

RAW SEQUENCE LISTING
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TIME: 13:36:48

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890 CTGAGATTAC AGGTGCCCCAC CATCACGCCT GGATAATTTT TGTATTTTTT AGTCGAGATG
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892 GGGTTTCACC ATGTTGGCCA GGATAGTCCT GAACTACTGA CCTCAGATAA TCCGCCCACC
893
894 TCAGCCTCCC AAAGTGCTGG GATTACAGGC ATGAGCCAGC ACGCCCGGCC ACCAATTTCA
895
896 TTTTTTAAAA AAGGAAGAAA GAAAACCTTA GCCAGAAGAT CTTTTTCCTT GCCATATGCA
897
898 GTAAGAGTAG ATTATAAAAA CAAAGTCAGA GCAGTCACTG GTGTCTGGGC ATGGAGGAGA
899
900 AAGAAGAATT CTCTTCTCCC TTCACCTCC ATGCCCCTTT TTGGCTCCAT GTGATTCAGA
901
902 TTTCTGGACC CTGGAGCCCC ACCCCAAGCT AAAGACCAGG ATACAGGGAA GCCACAACCA
903
904 CTGGCGGTTC TGAGAACTTA CTTTTCACTT ATTCTGCATT TACTGTTTCC TTTTCTTATG
905
906 CAGAAAAAGA AAAAAACCAA GGTAGGTGTG TGGGTAGAGA GCATGAAGTG TGTGTACTCA
907
908 TGCATATGTA TGTGCATGCA TGTGAAGTGT GCATGTGTGA GCTCATATGC ATCCATGCAC
909
910 CAGACTTGCC TCTTCTCCC CCTCCTTCTT GAGCTTCTGC TGGGGCCGAG CGTGCAGTAA
911
912 TGACAACTAC GATTTGCTGG GGGAAGGCTA CGTGCCAAGC ACTCTTTTAG GTGCTTTCCA
913
914 TGATTAATTC CTTCTCACA ACAGCCCTAT GAGATTAGTA CTATAACTAT CCCCATTTTC
915
916 AGAGGGAGAA AAGGTACAGA CTTGACTAAC TTGCCCAAGG CCACACAGCC AGAGAGGGGC
917
918 AGAGCCAGTA CTTAGAGCCA GGCAGTCTGG GTCCAGAGTC CGTGTCTGA ACCACAAGAG
919
920 GCCATCATAC GCCATCAGAT TTGGTGCTAG CATTTCTGGT GGTGCCTGGT GGTGATGGAT
921
922 CCATCACAGG GGTCTCCAG GTCCTGGTGC TGGCCCAGAC CAGAGCTGAC ACTCTCAGG
923
924 CACTACCACA TTCCAGGCAC TGTGCTTGGG GTCAGTCCCT CTCTTTTTTT TCCCCCCAA
925
926 TTATAACAGT ATCTACAAAG TAGGTGCTGT TATTTTCCC CTTTCACAGG TGAGATAGAC
927
928 TCAAAGAAGT GAACTTGCCC AAGGAACAGA ACTAATGAGT GGGGAAAATG GAACTGGAAA
929
930 CCATGTCTGT TTA CTCCAAA ACCTGTGTTT CTTGCCCTCT TTCTCTGATG CCAGCCCCCT
931
932 ACACTTCAAG GCCTGTGTTG TCCAGACCCA CACTCGGGCC TGCCAGTGTG TGCCTGGCAG
933
934 GGATGCTCCA TGGCCACACC ATATCCATCC TACACATCCC CCCTCAGACT GTGACCTCCA
935
936 TTTGCTCTGG GATCCCCACA AGCTTCAGCT GCTTGAGCAA GACACTGCTT AGAAGGCAGA
937
938 GCAAGCCAAG GCCTCTGGGG CCTGCTGGGA GCCAAAGCTG GGGAGCCGTT TCCACGGGTC
939
940 TATCTGCTTG AGCTGTCCTA GATGAGCAGC ATGGAAGGGC AGTGGTGCAT GAGTCCAGGC
941
942 GGGCTGCTTT TCTGCTCCGA GAGGCTCTGC CTGCCAGTT GTTCTCTGCA TTGCAGCCTC

same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:50

INPUT SET: S26725.raw

943
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945
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947
948 CTTGAAAATA TCCCTTGTTT GTGTAGCATC TTAAATGTTT TTGCAGTATG ATTTTGCATT
949
950 CAGTATCTCA TTTGATCCCC ACAAGAGCCC TATGAGGAGG GAAAGCAGAT TTTACCATTA
951
952 AAGGATGAGT AAAGTGGGC CAGAGAGGAT ATTTTGGTT TTTTGTGAGA CAGTCTCACT
953
954 CTGTACCCCA GCCTGGAGTG CAGTGGCTTG ATCTTGGCTC ACTGCAAGCT CCACCTCCCA
955
956 TGTTACACC ATTTTCCTGC CTCAGCCTCC CAAGTAGCTG GGACTACAGG CACCCACCAC
957
958 CACCCCAGC TAATTTTTTT GTATCTTTAG TAGAGATGGG GTTTCACCCA GTTAGCCAGG
959
960 ATGGTCTTGA TCTCCTGACC TTGTGATCTG CCTGCTTCGG CCTCCTAAAG TGCTGGGATT
961
962 ACAGGCGTGA ACCCCCCCTGC CCGGCCAGAG AGGATATTTT TTAATGAGGG GCAGGGCTGG
963
964 GATTCCAGCC CAGTGTCTG ATGGCTCACC CACTGACCAT TCCACTAATC CGTGTCTTTT
965
966 TTCAATCTAA ACTTTCAGGG TTGTAGAGGT TCCTTTGAGG TGCCTCAGTA CTTCCATGGT
967
968 GATGTGGGGT CTGAGGGCCA AGAGCTCTGT TCTCATTAAT CAGAGAAGCT TGTGTTTTTA
969
970 AAAACACCAT GTTTACTGCA GGAAATTTAA TTGGACAGTG TTTCCATCTG GAAAAAAAAA
971
972 AGTCTACAAA ATACTTGACA ATCACTGCAC TAGATCATGC TGCTTTTAGC ATTCTTAGCA
973
974 TTTCACGTGC TGAGCTCTCA ATACTCTACC ATGAGGAGGG ATGGAGTGGG TATGAAAAGA
975
976 TAAAGAACTG AAGTCACACG GCTTGTCACT GGCAGAGATA GAGCTTGAAC CGAGGTGAA
977
978 GAGCTCCCGC CTATTCCTTT CCTCTTCTCA CTGGATAAAG CTGCTCCAAG AGAGGTGCTG
979
980 CCTCAGTGTG CCTGTTCAGA CTGTAATCCT CCCTTCCTTC CTGCCTCCTC CCTCCTCTCT
981
982 CCAGCCCATC ATCTTCGTTT CGGACAGAGC AAACAGCAAC AAGGAGCTGG GTGTGGACCA
983
984 GGAGTCAGAG GAGGGCAAAG GCAAAACAAG CCCTGATAAG CAAAAGCAGT CCCCACAGGT
985
986 GTCTGGGCAT GTGGCATGGG TGGGGTGGCC AGCACGCTAC AGGGGCTTCC TATGCGCTTG
987
988 GGATACACAG GGGCTGGAGG CTTCACAGGA GTTTGTCTTG AACATCTGGA GGTGTTGAATT
989
990 TGTCCCCTG ACCTTTTCTT TCAGCAAGTT CCCCTGAAAT TTGGGCTGCT GCTTGGGTGA
991
992 ATATCCCAGG ATGGGGGTTC CATTCTAGGA GTGGACTGGC AGGCTGAGCC TCCCATGGAG
993
994 CTGATCCAGC CAGGATACAG AGAAGGGGAG GCAAAGGCTG AGACAGAACC AGCTTGAGAG
995

same

RAW SEQUENCE LISTING
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TIME: 13:36:52

INPUT SET: S26725.raw

996 CGGAGGCGCA ACTCTTGTCT CCTGGTGGCC TTGAGCATTT CACAATAGGG GGATAAAGGA
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998 TAGGAGCAGA AAAGTGGGGC TGACTTCAGA AATGGGGTCC TCTAGAGCTC ACGGGAGGGT
999
1000 GTTAGATTGG AGTGGGAGCT TAGTGGAGGT GAGCCTTAGA GGCAAAAGTC TCCAGACCAA
1001
1002 TCCAGGCCCC CTCTTCTATC CGGGGGCCCC TCTTCTATCC AGGGCCCCCTC TTCTGTCTGG
1003
1004 GAGCCCCTCT TCTATCTGGG GCCTCATGCA GTGGGGCCTA GGGGAGGTTC TCTGAGGACT
1005
1006 TGGCCTTGAT GACAGGTGG CTGGAGGAAT CAGAACGGTC AGACCTTCTT TGACCTGCGG
1007
1008 GCACCTTTAG TTGGAATGCT CAGGCCTGGG ATGGTGGAGG GGGCTCTTGC AGGTGGGGAC
1009
1010 TGGGGTGGCG GGGAGGAGGC TGTATGGCCG CCATATCTCC TTTGGCTGGG GGCCTCAGGG
1011
1012 CTGGAGAGGT GTGAAGAGTC CCTGAGGCCT CGATGCATCT CACTCCAGCT CACCAGGTCT
1013
1014 GCATTTGCCC GTCCCCAGCT CCTGCTGCCA CCCCCGGCCG TTTTAGGCAC TTGGCTCCCT
1015
1016 TGGCCCAGAG GAGCTTGCCCT CACAGGCCTG TGCACCTCTG ACCCCTGTGA ACCAGTTTTC
1017
1018 CTTTGTGCCT CCACAGCCAC AGCCTGGCAA CTCTGATCAG GAAAGTGAGG AACAGCAACA
1019
1020 ATTCCGGAAC ATTTTCAAGC AGATAGCAGG AGATGTGAGT ACCTCCAAGC CCAGGACGCC
1021
1022 CACAGGTGCT TCCTTCTCTC CTGGATTAAC TGCTCAGATT ACCAATTATT TCATTATTGT
1023
1024 TTGGTAGAGG TCACTTTGGA CTTGCGTGGA GCCAGGGGAT GTGTGCGTAG CACACAAATC
1025
1026 CACAAGCCCT TGAGTTTTGG ACTGCCACGT CTGCTGGGGG GCTCAGAGGC CTTTTTGCTC
1027
1028 TGAGCTGCCC ACGGTGGTCC TGATAGCTGA GGTGCAGTAT CTGGCCCCCT GTCTTCTCTA
1029
1030 GAAAAGCCCC AGCTTCCCAT GACATAATAG CACCGACAGG GATTTTACAA ACACAGCCAG
1031
1032 GTGGAATTTG TTTTGCAAAG TGTCCGCGCC AGGAGCTGCT GTACTCCTGA ACCATGACCC
1033
1034 TCCTCTCCCT TCCTCCTCAG GACATGGAGA TCTGTGCAGA TGAGCTCAAG AAGGTCTTTA
1035
1036 ACACAGTCGT GAACAAACGT GAGTTGCTCA AACCAAATGG GGGTGGGGTG GGTGGGGAGT
1037
1038 CCCGTTGTCT CAAAGCAGCT CCTCACTCTT CTCCATCCCC CCAGACAAGG ACCTGAAGAC
1039
1040 ACACGGGTTT ACCTGGAGT CCTGCCGTAG CATGATTGCG CTCATGGATG TATCCTTCCT
1041
1042 GCGGCCCCCT CCCGACCCTC TGTCATCAGC CCACGGGGGC CAAGGCAACA TACAGGTGTC
1043
1044 CCAGTCAGGC AAAGGGCCCT AATTTGTGCC CAGGGAACT TAAGGAGACC CTGATTGAGA
1045
1046 ACATCTTGGA TACTCGTCTG AAAGGGGTTG TTAGAGGCGG AAGGGGAGGA TGTGGGGTTG
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1048 TAACTGCCCT AACCCTGTG CTTCTCTCAG GCCTGGGATC CTGCCCAAGC AAAAGTGGTC

same

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PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:53

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1053
1054 CTCCCTCCAA ATCCAGGGGG ATTTTGCTGT GTGCTGTGTA GCCCTGACCT CCCTCCTCCA
1055
1056 GACAGATGGC TCTGGAAAGC TCAACCTGCA GGAGTTCCAC CACCTCTGGA ACAAGATTAA
1057
1058 GGCCTGGCAG GTGGGAAGAG AAAATGAAGC GTGGGAGTCA AGAATGGGGT TGATTTGGAG
1059
1060 ATTCAAGTGTG TGACCTCCAT CCTCAAATTT TCTATTGCCA GAAAATTTTC AAACACTATG
1061
1062 ACACAGACCA GTCCGGCACC ATCAACAGCT ACGAGATGCG AAATGCAGTC AACGACGCAG
1063
1064 GTGCTGAGAA GGAAGGGGTG TCAGGGATGT GGACCCGAGA CGGTGGGAGC AGGAATGGGA
1065
1066 GGGGACTAGC TACTAGGGCC CCACTAGAGA AGGAGAGGGA AAGGGCTTCT CACTTTCCCT
1067
1068 TCCCAGGTCA CAGAGTGTCC GAGAGGCAGG GAAAATAGAA GACAGGCCCA AGGCCTCCAG
1069
1070 CTCCACGTCC ACCTCTAACA TGGTCCCCTC CACAGGATTC CACCTCAACA ACCAGCTCTA
1071
1072 TGACATCATT ACCATGCGGT ACGCAGACAA ACACATGAAC ATCGACTTTG ACAGTTTCAT
1073
1074 CTGCTGCTTC GTTAGGCTGG AGGGCATGTT CAGTAAGTGG GAGAGGGGGG CTGCCCTCTG
1075
1076 CTCTCTTGCA GGGGCAGTTG TGGCAACAGG CATCTCACCT GATAATCTCC AGTCTGCTCC
1077
1078 ATCCAGGCTG AACAAGGGCC AATGACCTCT TTAGGCCAG AATGGGATGG CAAAGGGAGG
1079
1080 GTTACTGGTG ATTCTCTGCC TGCACATCTT TGTGCTGATG AGGGACAGCA CTGGGCACAC
1081
1082 GGTCTCTGA GGGGAAGTTA CAGTAGTAGA GGCGGAGTGC GCCTGTAACCT GGCCTCTGGC
1083
1084 CTGTGCATTC TTTCACAGGA GCTTCTCATG CATTTGACAA GGATGGAGAT GGTATCATCA
1085
1086 AGCTCAACGT TCTGGAGGTA AAGCATAGGC ACAGCACATT CCCCCTACAC ATTAAAACTC
1087
1088 AAGGTGGAGG GGTCAACGGG GCGGACTGGA CCCAGGGTGT GCTCCTCATT TCCACACAGT
1089
1090 GGTGGAGGGA AGGGATAGGA ACAGAACATG GAGGGAGGCT CAGCAGGCTC CCAGGACACA
1091
1092 TGCACTTGAG GCCCAAAGG ACCTCTGCTC CCCAGTCAC TTGATGCGGG AAAACATGCA
1093
1094 CCTTCTTAGG GAAGATCTAG GAGAAAGGAA ACAGTAAGCC ACTGCTTCTT GGAAAATCTT
1095
1096 CTGGGGGTCT GACCTGCTGG GACTGTTCCC TTTCTCTTG CCCCCTAAGA TTCTTAGGGC
1097
1098 GGGGGGGGGG GGGGGTCACT CTTTTCTGAT CTACATTCTG ATCTTGGGAC TTCTTTAGT
1099
1100 GGCTGCAGCT CACCATGTAT GCCTGAACCA GGCTGGCCTC ATCCAAAGCC ATGCAGGATC
1101

same

RAW SEQUENCE LISTING
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TIME: 13:36:55

INPUT SET: S26725.raw

1102 ACTCAGGATT TCAGTTTCAC CCTCTATTTT CAAAGCCATT TACCTCAAAG GACCCAGCAG
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1104 CTACACCCCT ACAGGCTTCC AGGCACCTCA TCAGTCATGT TCCTCCTCCA TTTTACCCCC
1105
1106 TACCCATCCT TGATCGGTCA TGCCTAGCCT GACCCTTTAG TAAAGCAATG AGGTAGGAAG
1107
1108 AACAAACCCT TGTCCCTTTG CCATGTGGAG GAAAGTGCCT GCCTCTGGTC CGAGCCGCCT
1109
1110 CGGTTCTGAA GCGAGTGCTC CTGCTTACCT TGCTCTAGGC TGTCTGCAGA AGCACCTGCC
1111
1112 GGTGGCACTC AGCACCTCCT TGTGCTAGAG CCCTCCATCA CCTTCACGCT GTCCCACCAT
1113
1114 GGGCCAGGAA CCAAACCAGC ACTGGGTTCT ACTGCTGTGG GGTAAACTAA CTCAGTGGAA
1115
1116 TAGGGCTGGT TACTTTGGGC TGTCCAACCTC ATAAGTTTGG CTGCATTTTG AAAAAAGCTG
1117
1118 ATCTAAATAA AGGCATGTGT ATGGCTGGTC CCCTTGTTT TTGTTGTCTC ACATTTAGAT
1119
1120 ATCAGCCATG CATGACTGAA TGGCTTCCAA TCATATACTC ACCTATCACC TACAAGAGAA
1121
1122 CAATGAAAAA CACACACAAA AACAAAATCT TGAATTTTGT AATCATGCCT ATTGCTATTT
1123
1124 CTTGAGCATA AGAATGGCTC AGATACTTTC CAAGACATAA AAGGAAGGCA GAGGAATAGT
1125
1126 TGTGCTGTA AAAGACATCA AGAATAAATG GGGTCATGTA CAACGGGAGG GGCCGGTTAC
1127
1128 CTGAATAATG GAGTGGAGAT TGAGCTATCC TAGCTCCTCT GCTCACTAAC TGACCTGTCTG
1129
1130 CATGACCGTG GACAAAACCC TGAACGCAGC TGTTTGTTTG CTAAACTTCT CTGGACCATG
1131
1132 GCCTGCGGCA TATCTATAGG CATCCTGTGT TTTCCACCCA GTTTCCTTCT TCCTCGCTAA
1133
1134 GCCAACGTGG AAAGGGCTGG CCGTGAATAT GCAGACAAGG TAACGAAAGT AAACCGTCAA
1135
1136 TTAGTAAAG TACTTCATTT TCCTCTTGTA TTTGCTTCAT TCTTGCTTCA CAAAGTTACG
1137
1138 AAGTCCACAG CTTTATACCA AAATGTAAGA AGGCTATTTG CTTATAAACA TTTTGAGTCA
1139
1140 GGTGTCATCT GATTTTCATC TTCTAATCCA TATTCAATAT TAAAAAATCA GAAACCAAGG
1141
1142 GTGCTGGAGC AGCTCTAGGG CATATATTTT TCTTAAATAG GAGAAAGATT TTCAACAGCT
1143
1144 TTTCTCCTT GACCCCTCC TTTCCCAATT TATTTGGGTC ACTACCTTGA ATTTAGAGTG
1145
1146 AATCTGGGAA ATGTAGTCAC CAGG
1147
1148

*same*1149 (2) INFORMATION FOR SEQ ID NO: 5:
1150

1151 (i) SEQUENCE CHARACTERISTICS:

--> 1152 (A) LENGTH: 5149 base pairs

1153 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:56

INPUT SET: S26725.raw

1154 (C) STRANDEDNESS: double
1155 (D) TOPOLOGY: linear
1156
1157 (ii) MOLECULE TYPE: genomic DNA
1158
1159 (ix) FEATURE:
1160 (A) NAME/KEY: misc_feature
1161 (D) OTHER INFORMATION:/label= FIGURE 2
1162
1163 (ix) FEATURE:
1164 (A) NAME/KEY: misc_feature
--> 1165 (B) POSITION : 1303..3764
1166 (D) OTHER INFORMATION:/note=CDS
1167
1168 (ix) FEATURE:
1169 (A) NAME/KEY: misc_feature
--> 1170 (B) POSITION : 1631
1171 (D) OTHER INFORMATION:/note= CGA->TGA ; nCL1 mutation in one
1172 LGMD2A family
1173
1174 (ix) FEATURE:
1175 (A) NAME/KEY: misc_feature
--> 1176 (B) POSITION : 1848
1177 (D) OTHER INFORMATION:/note= CTG->CAG ; nCL1 mutation in one
1178 LGMD2A family
1179
1180 (ix) FEATURE:
1181 (A) NAME/KEY: misc_feature
--> 1182 (B) POSITION : 1853
1183 (D) OTHER INFORMATION:/note= CAA->CA ; nCL1 mutation in one
1184 LGMD2A family
1185
1186 (ix) FEATURE:
1187 (A) NAME/KEY: misc_feature
--> 1188 (B) POSITION : 2004
1189 (D) OTHER INFORMATION:/note= GGG->GAG ; nCL1 mutation in one
1190 LGMD2A family
1191
1192 (ix) FEATURE:
1193 (A) NAME/KEY: misc_feature
--> 1194 (B) POSITION : 2248
1195 (D) OTHER INFORMATION:/note= CGG->CG ; nCL1 mutation in one
1196 LGMD2A family
1197
1198 (ix) FEATURE:
1199 (A) NAME/KEY: misc_feature
--> 1200 (B) POSITION : 2364
1201 (D) OTHER INFORMATION:/note= GTG->GGG ; nCL1 mutation in one
1202 LGMD2A family
1203
1204 (ix) FEATURE:
1205 (A) NAME/KEY: misc_feature
--> 1206 (B) POSITION : 2382

*G/o badly change this
to "LOCATION:"*

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:36:58

INPUT SET: S26725.raw

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1207          (D) OTHER INFORMATION:/note= TGG->TAG ; nCL1 mutation in one
1208 LGMD2A family
1209
1210      (ix) FEATURE:
1211          (A) NAME/KEY: misc_feature
--> 1212          (B) POSITION : 2771
1213          (D) OTHER INFORMATION:/note= CGG->TGG ; nCL1 mutation in one
1214 LGMD2A family
1215
1216      (ix) FEATURE:
1217          (A) NAME/KEY: misc_feature
--> 1218          (B) POSITION : 3018
1219          (D) OTHER INFORMATION:/note= GGG->CAG ; nCL1 mutation in one
1220 LGMD2A family
1221
1222      (ix) FEATURE:
1223          (A) NAME/KEY: misc_feature
--> 1224          (B) POSITION : 3372..3373
1225          (D) OTHER INFORMATION:/note= Deletion AC ; nCL1 mutation in one
1226 LGMD2A family
1227
1228      (ix) FEATURE:
1229          (A) NAME/KEY: misc_feature
--> 1230          (B) POSITION : 3533
1231          (D) OTHER INFORMATION:/note= AGC->GGC ; nCL1 mutation in one
1232 LGMD2A family
1233
1234      (ix) FEATURE:
1235          (A) NAME/KEY: misc_feature
--> 1236          (B) POSITION : 3609
1237          (D) OTHER INFORMATION:/note= CGG->CAG ; nCL1 mutation in one
1238 LGMD2A family
1239
1240      (ix) FEATURE:
1241          (A) NAME/KEY: misc_feature
--> 1242          (B) POSITION : 3616..3619
1243          (D) OTHER INFORMATION:/note= Deletion AGAC ; nCL1 mutation in one
1244 LGMD2A family
1245
1246      (ix) FEATURE:
1247          (A) NAME/KEY: misc_feature
--> 1248          (B) POSITION : 3665..3666
1249          (D) OTHER INFORMATION:/note= AG->TCATCT ; nCL1 mutation in one
1250 LGMD2A family
1251
1252
1253
1254
1255      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
1256
1257 ATATCAGTTA GCCTGGTTTC ACTATACAGT ACATCATTTT GCTTAAAGTC ACAGCTTACG
1258
1259 AGAACCTATC GATGATGTTA AGTGAGGATT TTCTCTGCTC AGGTGCACTT TTTTTTTTTT
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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:00

INPUT SET: S26725.raw

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1264
1265 ATTACAGGCA CCCCCGCCA CACCCGGCTT ATTTTGTAT TTTTAGTAGA GACAGGGTTT
1266
1267 CACTATTGTT GTCCATGCTG GTCTCGAACT CGTGACCTCA TGTGATCCAC CCGCCTCGGC
1268
1269 CTCCCAAAGT GCAGAGATTA GAGACGTGAT CCACATGGCC CAGCAGGACC ACTTTTTAGC
1270
1271 AGATTCAGTC CCAGTGTTCA TTTTGTGGAT GGGGAGAGAC AAGAGGTGGC AAGGTCAAGT
1272
1273 GTGCAGGTAG AGACAGGGAT TTTCTCAAAT GAGGACTCTG CTGAGTAGCA TTTTCCATGC
1274
1275 AGACATTTCC AATGAGCGCT GACCCAAGAA CATTCTAAAA AAGATACCAA ATCTAACATT
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1277 GAATAATGTT CTGATATCCT AAAATTTTAG GACTAAAAAT CATGTTCTCT AAAATTCACA
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1279 GAATATTTTT GTAGAATTCA GTACCTCCCG TTCACCTAA CTAGCTTTTT TGCAATATTG
1280
1281 TTTTCCATTC ATTTGATGGC CAGTAGTTGG GTGGTCTGTA TAACTGCCTA CTCAATAACA
1282
1283 TGTCAGCAGT TCTCAGCTTC TTTCCAGTGT TCACCTTACT CAGATACTCC CTTTTCATTT
1284
1285 TCTGGCAACA CCAGCACTTC ATGGCAACAG AAATGTCCCT AGCCAGGTTC TCTCTCTACC
1286
1287 ATGCAGTCTC TCTTGCTCTC ATACTCACAG TGTTTCTTCA CATCTATTTT TAGTTTTCTT
1288
1289 GGCTCAAGCA TCTTCAGGCC ACTGAAACAC AACCCCTCACT CTCTTTCTCT CTCCCTCTGG
1290
1291 CATGCATGCT GCTGGTAGGA GACCCCCAAG TCAACATTGC TTCAGAAATC CTTTAGCACT
1292
1293 CATTTCTCAG GAGAACTTAT GGCTTCAGAA TCACAGCTCG GTTTTAAAGA TGGACATAAC
1294
1295 CTGTCCGACC TTCTGATGGG CTTTCAACTT TGAACGGAT GTGGACACTT TTCTCTCAGA
1296
1297 TGACAGAATT ACTCCAATT CCCCTTTGCA GTTGCTTCCT TTCTTGAAG GTAGCTGTAT
1298
1299 CTTATTTTCT TTA AAAAGCT TTTTCTTCCA AAGCCACTTG CCATGCCGAC CGTCATTAGC
1300
1301 GCATCTGTGG CTCCAAGGAC AGCGGCTGAG CCCC GGTTCCC CAGGGCCAGT TCCTCACCCG
1302
1303 GCCCAGAGCA AGGCCACTGA GGCTGGGGGT GGAAACCCAA GTGGCATCTA TTCAGCCATC
1304
1305 ATCAGCCGCA ATTTTCCTAT TATCGGAGTG AAAGAGAAGA CATTCGAGCA ACTTCACAAG
1306
1307 AAATGTCTAG AAAAGAAAGT TCTTTATGTG GACCCTGAGT TCCCACCGGA TGAGACCTCT
1308
1309 CTCTTTTATA GCCAGAAGTT CCCCATCCAG TTCGTCTGGA AGAGACCTCC GGAAATTTGC
1310
1311 GAGAATCCCC GATTTATCAT TGATGGAGCC AACAGAACTG ACATCTGTCA AGGAGAGCTA
1312

same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:01

INPUT SET: S26725.raw

1313 GGGGACTGCT GGTTTCTCGC AGCCATTGCC TGCCTGACCC TGAACCAGCA CCTTCTTTTC
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1316
1317 TTCTGGCGCT ATGGAGAGTG GGTGGACGTG GTTATAGATG ACTGCCTGCC AACGTACAAC
1318
1319 AATCAACTGG TTTTCACCAA GTCCAACCAC CGCAATGAGT TCTGGAGTGC TCTGCTGGAG
1320
1321 AAGGCTTATG CTAAGCTCCA TGGTTCCTAC GAAGCTCTGA AAGGTGGGAA CACCACAGAG
1322
1323 GCCATGGAGG ACTTCACAGG AGGGGTGGCA GAGTTTTTTG AGATCAGGGA TGCTCCTAGT
1324
1325 GACATGTACA AGATCATGAA GAAAGCCATC GAGAGAGGCT CCCTCATGGG CTGCTCCATT
1326
1327 GATGATGGCA CGAACATGAC CTATGGAACC TCTCCTTCTG GTCTGAACAT GGGGGAGTTG
1328
1329 ATTGCACGGA TGGTAAGGAA TATGGATAAC TCACTGCTCC AGGACTCAGA CCTCGACCCC
1330
1331 AGAGGCTCAG ATGAAAGACC GACCCGGACA ATCATTCCGG TTCAGTATGA GACAAGAATG
1332
1333 GCCTGCGGGC TGGTCAGAGG TCACGCCTAC TCTGTCACGG GGCTGGATGA GGTCCCCTTC
1334
1335 AAAGGTGAGA AAGTGAAGCT GGTGCGGCTG CGGAATCCGT GGGGCCAGGT GGAGTGGAAC
1336
1337 GGTTCTTGGA GTGATAGATG GAAGGACTGG AGCTTTGTGG ACAAAGATGA GAAGGCCCGT
1338
1339 CTGCAGCACC AGGTCACTGA GGATGGAGAG TTCTGGATGT CCTATGAGGA TTTCATCTAC
1340
1341 CATTTACAAA AGTTGGAGAT CTGCAACCTC ACGGCCGATG CTCTGCAGTC TGACAAGCTT
1342
1343 CAGACCTGGA CAGTGTCTGT GAACGAGGGC CGCTGGGTAC GGGGTTGCTC TGCCGGAGGC
1344
1345 TGCCGCAACT TCCCAGATAC TTTCTGGACC AACCCTCAGT ACCGTCTGAA GCTCCTGGAG
1346
1347 GAGGACGATG ACCCTGATGA CTCGGAGGTG ATTTGCAGCT TCCTGGTGGC CCTGATGCAG
1348
1349 AAGAACCAGC GGAAGGACCG GAAGCTAGGG GCCAGTCTCT TCACCATTGG CTTCGCCATC
1350
1351 TACGAGGTTT CCAAAGAGAT GCACGGGAAC AAGCAGCACC TGCAGAAGGA CTTCTTCCTG
1352
1353 TACAACGCCT CCAAGGCCAG GAGCAAAACC TACATCAACA TGCGGGAGGT GTCCCAGCGC
1354
1355 TTCCGCCTGC CTCCCAGCGA GTACGTCATC GTGCCCTCCA CCTACGAGCC CCACCAGGAG
1356
1357 GGGGAATTCA TCCTCCGGGT CTTCTCTGAA AAGAGGAACC TCTCTGAGGA AGTTGAAAAT
1358
1359 ACCATCTCCG TGGATCGGCC AGTGAAAAAG AAAAAAACCA AGCCCATCAT CTTCTTTTCG
1360
1361 GACAGAGCAA ACAGCAACAA GGAGCTGGGT GTGGACCAGG AGTCAGAGGA GGGCAAAGGC
1362
1363 AAAACAAGCC CTGATAAGCA AAAGCAGTCC CCACAGCCAC AGCCTGGCAG CTCTGATCAG
1364
1365 GAAAGTGAGG AACAGCAACA ATTCCGGAAC ATTTTCAAGC AGATAGCAGG AGATGACATG

same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:03

INPUT SET: S26725.raw

1366
1367 GAGATCTGTG CAGATGAGCT CAAGAAGGTC CTTAACACAG TCGTGAACAA ACACAAGGAC
1368
1369 CTGAAGACAC ACGGGTTCAC ACTGGAGTCC TGCCGTAGCA TGATTGCGCT CATGGATACA
1370
1371 GATGGCTCTG GAAAGCTCAA CCTGCAGGAG TTCCACCACC TCTGGAACAA GATTAAGGCC
1372
1373 TGGCAGAAAA TTTTCAAACA CTATGACACA GACCAGTCCG GCACCATCAA CAGCTACGAG
1374
1375 ATGCGAAATG CAGTCAACGA CGCAGGATTC CACCTCAACA ACCAGCTCTA TGACATCATT
1376
1377 ACCATGCGGT ACGCAGACAA ACACATGAAC ATCGACTTTG ACAGTTTCAT CTGCTGCTTC
1378
1379 GTTAGGCTGG AGGGCATGTT CAGAGCTTTT CATGCATTTG ACAAGGATGG AGATGGTATC
1380
1381 ATCAAGCTCA ACGTTCTGGA GTGGCTGCAG CTCACCATGT ATGCCTGAAC CAGGCTGGCC
1382
1383 TCATCCAAAG CCATGCAGGA TCACTCAGGA TTTCAGTTTC ACCCTCTATT TCCAAAGCCA
1384
1385 TTTACCTCAA AGGACCCAGC AGCTACACCC CTACAGGCTT CCAGGCACCT CATCAGTCAT
1386
1387 GTTCCTCCTC CATTTTACCC CCTACCCATC CTTGATCGGT CATGCCTAGC CTGACCCTTT
1388
1389 AGTAAAGCAA TGAGGTAGGA AGAACAACCC CTTGTCCCTT TGCCATGTGG AGGAAAGTGC
1390
1391 CTGCCTCTGG TCCGAGCCGC CTCGGTTCTG AAGCGAGTGC TCCTGCTTAC CTTGCTCTAG
1392
1393 GCTGTCTGCA GAAGCACCTG CCGGTGGCAC TCAGCACCTC CTTGTGCTAG AGCCCTCCAT
1394
1395 CACCTTCACG CTGTCCCACC ATGGGCCAGG AACCAAACCA GCACTGGGTT CTA CTGCTGT
1396
1397 GGGGTAAACT AACTCAGTGG AATAGGGCTG GTTACTTTGG GCTGTCCAAC TCATAAGTTT
1398
1399 GGCTGCATTT TGAAAAAGC TGATCTAAAT AAAGGCATGT GTATGGCTGG TCCCCTTGTG
1400
1401 TTTTGTGTG TCACATTTAG ATATCAGCCA TGCATGACTG AATGGCTTCC AATCATATAC
1402
1403 TCACCTATCA CCTACAAGAG AACAAATGAAA AACACACACA AAAACAAAAT CTTGAATTTT
1404
1405 GTAATCATGC CTATTGCTAT TTCTTGAGCA TAAGAATGGC TCAGATACTT TCCAAGACAT
1406
1407 AAAAGGAAGG CAGAGGAATA GTTGTGCTG TAAAAGACAT CAAGAATAAA TGGGTCATGT
1408
1409 ACAACGGGAG GGGCCGGTTA CCTGAATAAT GGAGTGGAGA TTGAGCTATC CTAGCTCCTC
1410
1411 TGCTCACTAA CTGACCTGTC GCATGACCGT GGACAAAACC CTGAACGCAG CTGTTTGT
1412
1413 GCTAACTTC TCTGGACCAT GGCCTGCGGC ATATCTATAG GCATCCTGTG TTTTCCACCC
1414
1415 AGTTTCCTTC TTCCTCGCTA AGCCAACGTG GAAAGGGCTG GCCGTGAATA TGCAGACAAG
1416
1417 GTAACGAAAG TAAACCGTCA ATTAGTAAAA GTACTTCATT TTCCTCTTGT ATTTGCTTCA
1418

same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:05

INPUT SET: S26725.raw

1419 TATCTTGCTT CACAAAGTTA CGAAGTTCAC AGCTTTATAC CAAAATGTAA GAAGGCTATT
1420
1421 TGCTTATAAA CATTTTGTCA GTCAGGTGTC ATCTGATTTC ATTCTTCTAA TCCATATTCA
1422
1423 ATATTANAAA AATCAGAAAC CAAGGGTGCT GGAGCAGCTC TAGGGCATAT ATTTCTCTTA
1424
1425 AATAGGAGAA AGATTTTCAA CAGCTTTTCC TCCTTGACCC CCTCCTTTCC CAATTTATTT
1426
1427 GGGTCACTAC CTTGAATTTA GAGTGAATCT GGGAAATGTA GTCACCAGG
1428
1429

same

2232 (2) INFORMATION FOR SEQ ID NO: 10:
2233

--> 2234 (i) SEQUENCE CHARACTERISTICS:
2235 (A) LENGTH: 20 base pairs
2236 (B) TYPE: nucleic acid
2237 (C) STRANDEDNESS: double
2238 (D) TOPOLOGY: linear
2239

2240 (ii) MOLECULE TYPE: cDNA
2241

2242 (ix) FEATURE:
2243 (A) NAME/KEY: misc_feature
2244 (D) OTHER INFORMATION:/label= Table 1
2245

2246 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
22472248 ATGGAGCCAA CAGAACTGAC
2249*total*

✓

2250 (2) INFORMATION FOR SEQ ID NO: 11:
2251

--> 2252 (i) SEQUENCE CHARACTERISTICS:
2253 (A) LENGTH: 21 base pairs
2254 (B) TYPE: nucleic acid
2255 (C) STRANDEDNESS: double
2256 (D) TOPOLOGY: linear
2257

2258 (ii) MOLECULE TYPE: Primer
2259

2260 (ix) FEATURE:
2261 (A) NAME/KEY: misc_feature
2262 (D) OTHER INFORMATION:/label= Table 1
2263

2264 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
22652266 GTATGACTCG GAAAAGAAGGT
2267

✓

2268 (2) INFORMATION FOR SEQ ID NO: 12:
2269

2270 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:06

INPUT SET: S26725.raw

--> 2271 (A) LENGTH: 20 base pairs
2272 (B) TYPE: nucleic acid
2273 (C) STRANDEDNESS: double
2274 (D) TOPOLOGY: linear
2275
2276 (ii) MOLECULE TYPE: Primer
2277
2278 (ix) FEATURE:
2279 (A) NAME/KEY: misc_feature
2280 (D) OTHER INFORMATION:/label= Table 1
2281
2282 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
2283
2284 TAAGCAAAAG CAGTCCCCAC
2285

total
✓

2286 (2) INFORMATION FOR SEQ ID NO: 13:
2287
2288 (i) SEQUENCE CHARACTERISTICS:
--> 2289 (A) LENGTH: 21 base pairs
2290 (B) TYPE: nucleic acid
2291 (C) STRANDEDNESS: double
2292 (D) TOPOLOGY: linear
2293
2294 (ii) MOLECULE TYPE: primer
2295
2296 (ix) FEATURE:
2297 (A) NAME/KEY: misc_feature
2298 (D) OTHER INFORMATION:/label= Table 1
2299
2300 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
2301
2302 TTGCTGTTCC TCACTTTCCTG
2303

✓

2304 (2) INFORMATION FOR SEQ ID NO: 14:
2305
2306 (i) SEQUENCE CHARACTERISTICS:
--> 2307 (A) LENGTH: 20 base pairs
2308 (B) TYPE: nucleic acid
2309 (C) STRANDEDNESS: double
2310 (D) TOPOLOGY: linear
2311
2312 (ii) MOLECULE TYPE: primer
2313
2314 (ix) FEATURE:
2315 (A) NAME/KEY: misc_feature
2316 (D) OTHER INFORMATION:/label= Table 1
2317
2318 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
2319
2320 GTTTCATCTG CTGCTTCGTT
2321

✓

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:08

INPUT SET: S26725.raw

2322 (2) INFORMATION FOR SEQ ID NO: 15:
2323
2324 (i) SEQUENCE CHARACTERISTICS:
--> 2325 (A) LENGTH: 20 base pairs
2326 (B) TYPE: nucleic acid
2327 (C) STRANDEDNESS: double
2328 (D) TOPOLOGY: linear
2329
2330 (ii) MOLECULE TYPE: primer
2331
2332 (ix) FEATURE:
2333 (A) NAME/KEY: misc_feature
2334 (D) OTHER INFORMATION:/label= Table 1
2335
2336 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
2337
2338 CTGGTTCAGG CATACATGGT
2339

total

✓

2340 (2) INFORMATION FOR SEQ ID NO: 16:
2341
2342 (i) SEQUENCE CHARACTERISTICS:
--> 2343 (A) LENGTH: 22 base pairs
2344 (B) TYPE: nucleic acid
2345 (C) STRANDEDNESS: double
2346 (D) TOPOLOGY: linear
2347
2348 (ii) MOLECULE TYPE: primer
2349
2350 (ix) FEATURE:
2351 (A) NAME/KEY: misc_feature
2352 (D) OTHER INFORMATION:/label= Table 1
2353
2354 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
2355
2356
2357 TTCTTTATGT GGACCCTGAG TT
2358

✓

2359 (2) INFORMATION FOR SEQ ID NO: 17:
2360
2361 (i) SEQUENCE CHARACTERISTICS:
--> 2362 (A) LENGTH: 19 base pairs
2363 (B) TYPE: nucleic acid
2364 (C) STRANDEDNESS: double
2365 (D) TOPOLOGY: linear
2366
2367 (ii) MOLECULE TYPE: primer
2368
2369 (ix) FEATURE:
2370 (A) NAME/KEY: misc_feature
2371 (D) OTHER INFORMATION:/label= Table 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:09

INPUT SET: S26725.raw

2372
2373 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
2374
2375 ACGAACTGGA TGGGGAAC
2376

total
✓

2377 (2) INFORMATION FOR SEQ ID NO:18 :
2378
2379 (i) SEQUENCE CHARACTERISTICS:
--> 2380 (A) LENGTH: 20 base pairs
2381 (B) TYPE: nucleic acid
2382 (C) STRANDEDNESS: double
2383 (D) TOPOLOGY: linear
2384
2385 (ii) MOLECULE TYPE: primer
2386
2387 (ix) FEATURE:
2388 (A) NAME/KEY: misc_feature
2389 (D) OTHER INFORMATION:/label= Table 3
2390
2391 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
2392
2393 TTGAGTACCTCCCGTTCACC
2394

invalid - put 1.822 of sequence into
group bases (non-coding) into 10's

total
✓

2395 (2) INFORMATION FOR SEQ ID NO:19:
2396
2397 (i) SEQUENCE CHARACTERISTICS:
--> 2398 (A) LENGTH: 20 base pairs
2399 (B) TYPE: nucleic acid
2400 (C) STRANDEDNESS: double
2401 (D) TOPOLOGY: linear
2402
2403 (ii) MOLECULE TYPE: primer
2404
2405 (ix) FEATURE:
2406 (A) NAME/KEY: misc_feature
2407 (D) OTHER INFORMATION:/label= Table 3
2408
2409 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
2410
2411 GATGCTTGAGCCAGGAAAAC
2412

This type of error
appears in all
subsequent nucleic
acid sequences

✓

2413 (2) INFORMATION FOR SEQ ID NO:20:
2414
2415 (i) SEQUENCE CHARACTERISTICS:
--> 2416 (A) LENGTH: 22 base pairs
2417 (B) TYPE: nucleic acid
2418 (C) STRANDEDNESS: double
2419 (D) TOPOLOGY: linear
2420
2421 (ii) MOLECULE TYPE: primer

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:11

INPUT SET: S26725.raw

2422
2423 (ix) FEATURE:
2424 (A) NAME/KEY: misc_feature
2425 (D) OTHER INFORMATION:/label= Table 3
2426
2427 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
2428
2429 CTTTCCTTGAAGGTAGCTGTAT
2430

2431 (2) INFORMATION FOR SEQ ID NO:21 :
2432
2433 (i) SEQUENCE CHARACTERISTICS:
--> 2434 (A) LENGTH: 20 base pairs
2435 (B) TYPE: nucleic acid
2436 (C) STRANDEDNESS: double
2437 (D) TOPOLOGY: linear
2438
2439 (ii) MOLECULE TYPE: primer
2440
2441 (ix) FEATURE:
2442 (A) NAME/KEY: misc_feature
2443 (D) OTHER INFORMATION:/label= Table 3
2444
2445 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21 :
2446
2447 GAGGTGCTGAGTGAGAGGAC
2448

2449 (2) INFORMATION FOR SEQ ID NO:22 :
2450
2451 (i) SEQUENCE CHARACTERISTICS:
--> 2452 (A) LENGTH: 22 base pairs
2453 (B) TYPE: nucleic acid
2454 (C) STRANDEDNESS: double
2455 (D) TOPOLOGY: linear
2456
2457 (ii) MOLECULE TYPE: primer
2458
2459 (ix) FEATURE:
2460 (A) NAME/KEY: misc_feature
2461 (D) OTHER INFORMATION:/label= Table 3
2462
2463 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22 :
2464
2465 ACTCCGTCTCAAAAAATACCT
2466

2467 (2) INFORMATION FOR SEQ ID NO:23:
2468
2469 (i) SEQUENCE CHARACTERISTICS:
--> 2470 (A) LENGTH: 20 base pairs
2471 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:12

INPUT SET: S26725.raw

2472 (C) STRANDEDNESS: double
2473 (D) TOPOLOGY: linear
2474
2475 (ii) MOLECULE TYPE: primer
2476
2477 (ix) FEATURE:
2478 (A) NAME/KEY: misc_feature
2479 (D) OTHER INFORMATION:/label= Table 3
2480
2481 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23 :
2482
2483 ATTGTCCTTTACCTCCTGG
2484

✓

2485 (2) INFORMATION FOR SEQ ID NO:24 :
2486
2487 (i) SEQUENCE CHARACTERISTICS:
--> 2488 (A) LENGTH: 20 base pairs
2489 (B) TYPE: nucleic acid
2490 (C) STRANDEDNESS: double
2491 (D) TOPOLOGY: linear
2492
2493 (ii) MOLECULE TYPE: primer
2494
2495 (ix) FEATURE:
2496 (A) NAME/KEY: misc_feature
2497 (D) OTHER INFORMATION:/label= Table 3
2498
2499 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24 :
2500
2501 TGGAAGTAGGAGAGTGGGCA
2502

✓

2503 (2) INFORMATION FOR SEQ ID NO:25 :
2504
2505 (i) SEQUENCE CHARACTERISTICS:
--> 2506 (A) LENGTH: 20 base pairs
2507 (B) TYPE: nucleic acid
2508 (C) STRANDEDNESS: double
2509 (D) TOPOLOGY: linear
2510
2511 (ii) MOLECULE TYPE: primer
2512
2513 (ix) FEATURE:
2514 (A) NAME/KEY: misc_feature
2515 (D) OTHER INFORMATION:/label= Table 3
2516
2517 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25 :
2518
2519 GGGTAGATGGGTGGGAAGTT
2520

✓

2521 (2) INFORMATION FOR SEQ ID NO:26 :

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:14

INPUT SET: S26725.raw

2522
2523 (i) SEQUENCE CHARACTERISTICS:
--> 2524 (A) LENGTH: 20 base pairs
2525 (B) TYPE: nucleic acid
2526 (C) STRANDEDNESS: double
2527 (D) TOPOLOGY: linear
2528
2529 (ii) MOLECULE TYPE: primer
2530
2531 (ix) FEATURE:
2532 (A) NAME/KEY: misc_feature
2533 (D) OTHER INFORMATION:/label= Table 3
2534
2535 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26 :
2536
2537 GAGGAATGTGGAGGAAGGAC
2538

2539 (2) INFORMATION FOR SEQ ID NO:27:
2540
2541 (i) SEQUENCE CHARACTERISTICS:
--> 2542 (A) LENGTH: 20 base pairs
2543 (B) TYPE: nucleic acid
2544 (C) STRANDEDNESS: double
2545 (D) TOPOLOGY: linear
2546
2547 (ii) MOLECULE TYPE: primer
2548
2549 (ix) FEATURE:
2550 (A) NAME/KEY: misc_feature
2551 (D) OTHER INFORMATION:/label= Table 3
2552
2553 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:
2554
2555 TTCCTGTGAGTGAGGTCTCG
2556

2557 (2) INFORMATION FOR SEQ ID NO:28 :
2558
2559 (i) SEQUENCE CHARACTERISTICS:
--> 2560 (A) LENGTH: 20 base pairs
2561 (B) TYPE: nucleic acid
2562 (C) STRANDEDNESS: double
2563 (D) TOPOLOGY: linear
2564
2565 (ii) MOLECULE TYPE: primer
2566
2567 (ix) FEATURE:
2568 (A) NAME/KEY: misc_feature
2569 (D) OTHER INFORMATION:/label= Table 3
2570
2571 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28 :
2572

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:16

INPUT SET: S26725.raw

2573 GGAACTCTGTGACCCCAAAT
25742575 (2) INFORMATION FOR SEQ ID NO:29 :
2576

--> 2577 (i) SEQUENCE CHARACTERISTICS:
2578 (A) LENGTH: 20 base pairs
2579 (B) TYPE: nucleic acid
2580 (C) STRANDEDNESS: double
2581 (D) TOPOLOGY: linear
2582
2583 (ii) MOLECULE TYPE: primer
2584
2585 (ix) FEATURE:
2586 (A) NAME/KEY: misc_feature
2587 (D) OTHER INFORMATION:/label= Table 3
2588
2589 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29 :
2590
2591 TCCTCAAACAAAACATTTCGC
2592

2593 (2) INFORMATION FOR SEQ ID NO:30 :
2594

--> 2595 (i) SEQUENCE CHARACTERISTICS:
2596 (A) LENGTH: 20 base pairs
2597 (B) TYPE: nucleic acid
2598 (C) STRANDEDNESS: double
2599 (D) TOPOLOGY: linear
2600
2601 (ii) MOLECULE TYPE: primer
2602
2603 (ix) FEATURE:
2604 (A) NAME/KEY: misc_feature
2605 (D) OTHER INFORMATION:/label= Table 3
2606
2607 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:
2608
2609 GTTCCCTACATTCTCCATCG
2610

2611 (2) INFORMATION FOR SEQ ID NO:31 :
2612

--> 2613 (i) SEQUENCE CHARACTERISTICS:
2614 (A) LENGTH: 21 base pairs
2615 (B) TYPE: nucleic acid
2616 (C) STRANDEDNESS: double
2617 (D) TOPOLOGY: linear
2618
2619 (ii) MOLECULE TYPE: primer
2620
2621 (ix) FEATURE:
2622 (A) NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:17

INPUT SET: S26725.raw

2623 (D) OTHER INFORMATION:/label= Table 3

2624

2625 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31 :

2626

2627 GTTATTTCAACCCAGACCCTT

2628

2629 (2) INFORMATION FOR SEQ ID NO:32 :

2630

(i) SEQUENCE CHARACTERISTICS:

--> 2632 (A) LENGTH: 21 base pairs

2633 (B) TYPE: nucleic acid

2634 (C) STRANDEDNESS: double

2635 (D) TOPOLOGY: linear

2636

2637 (ii) MOLECULE TYPE: primer

2638

2639 (ix) FEATURE:

2640 (A) NAME/KEY: misc_feature

2641 (D) OTHER INFORMATION:/label= Table 3

2642

2643 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32 :

2644

2645 AATGGGTTCTCTGTTACTGC

2646

2647 (2) INFORMATION FOR SEQ ID NO:33 :

2648

(i) SEQUENCE CHARACTERISTICS:

--> 2650 (A) LENGTH: 21 base pairs

2651 (B) TYPE: nucleic acid

2652 (C) STRANDEDNESS: double

2653 (D) TOPOLOGY: linear

2654

2655 (ii) MOLECULE TYPE: primer

2656

(ix) FEATURE:

2657 (A) NAME/KEY: misc_feature

2658 (D) OTHER INFORMATION:/label= Table 3

2659

2660 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33 :

2661

2662 AGCACGAAAAGCAAAGATAAA

2663

2665 (2) INFORMATION FOR SEQ ID NO:34 :

2666

(i) SEQUENCE CHARACTERISTICS:

--> 2668 (A) LENGTH: 20 base pairs

2669 (B) TYPE: nucleic acid

2670 (C) STRANDEDNESS: double

2671 (D) TOPOLOGY: linear

2672

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:19

INPUT SET: S26725.raw

2673 (ii) MOLECULE TYPE: primer
2674
2675 (ix) FEATURE:
2676 (A) NAME/KEY: misc_feature
2677 (D) OTHER INFORMATION:/label= Table 3
2678
2679 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34 :
2680
2681 GTAAGAGATTGCCCCCAG
2682

2683 (2) INFORMATION FOR SEQ ID NO:35 :
2684
2685 (i) SEQUENCE CHARACTERISTICS:
--> 2686 (A) LENGTH: 20 base pairs
2687 (B) TYPE: nucleic acid
2688 (C) STRANDEDNESS: double
2689 (D) TOPOLOGY: linear
2690
2691 (ii) MOLECULE TYPE: primer
2692
2693 (ix) FEATURE:
2694 (A) NAME/KEY: misc_feature
2695 (D) OTHER INFORMATION:/label= Table 3
2696
2697 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35 :
2698
2699 TCTGCGGATCATTGTTTGTG
2700

2701 (2) INFORMATION FOR SEQ ID NO:36 :
2702
2703 (i) SEQUENCE CHARACTERISTICS:
--> 2704 (A) LENGTH: 20 base pairs
2705 (B) TYPE: nucleic acid
2706 (C) STRANDEDNESS: double
2707 (D) TOPOLOGY: linear
2708
2709 (ii) MOLECULE TYPE: primer
2710
2711 (ix) FEATURE:
2712 (A) NAME/KEY: misc_feature
2713 (D) OTHER INFORMATION:/label= Table 3
2714
2715 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36 :
2716
2717 CCTTCCCTTCTTCCTGCTTC
2718

2719 (2) INFORMATION FOR SEQ ID NO:37 :
2720
2721 (i) SEQUENCE CHARACTERISTICS:
--> 2722 (A) LENGTH: 20 base pairs

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:20

INPUT SET: S26725.raw

2723 (B) TYPE: nucleic acid
2724 (C) STRANDEDNESS: double
2725 (D) TOPOLOGY: linear
2726
2727 (ii) MOLECULE TYPE: primer
2728
2729 (ix) FEATURE:
2730 (A) NAME/KEY: misc_feature
2731 (D) OTHER INFORMATION:/label= Table 3
2732
2733 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37 :
2734
2735 CTCTCTTCCCCACCCCTTACC
2736

2737 (2) INFORMATION FOR SEQ ID NO:38 :
2738
2739 (i) SEQUENCE CHARACTERISTICS:
--> 2740 (A) LENGTH: 20 base pairs
2741 (B) TYPE: nucleic acid
2742 (C) STRANDEDNESS: double
2743 (D) TOPOLOGY: linear
2744
2745 (ii) MOLECULE TYPE: primer
2746
2747 (ix) FEATURE:
2748 (A) NAME/KEY: misc_feature
2749 (D) OTHER INFORMATION:/label= Table 3
2750
2751 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38 :
2752
2753 CCTCCTCACCTGCTCCCATA
2754

2755 (2) INFORMATION FOR SEQ ID NO:39 :
2756
2757 (i) SEQUENCE CHARACTERISTICS:
--> 2758 (A) LENGTH: 20 base pairs
2759 (B) TYPE: nucleic acid
2760 (C) STRANDEDNESS: double
2761 (D) TOPOLOGY: linear
2762
2763 (ii) MOLECULE TYPE: primer
2764
2765 (ix) FEATURE:
2766 (A) NAME/KEY: misc_feature
2767 (D) OTHER INFORMATION:/label= Table 3
2768
2769 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39 :
2770
2771 TTTTTCGGCTTAGACCCCTCC
2772

2773 (2) INFORMATION FOR SEQ ID NO:40 :

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:22

INPUT SET: S26725.raw

2774
2775 (i) SEQUENCE CHARACTERISTICS:
--> 2776 (A) LENGTH: 22 base pairs
2777 (B) TYPE: nucleic acid
2778 (C) STRANDEDNESS: double
2779 (D) TOPOLOGY: linear
2780
2781 (ii) MOLECULE TYPE: primer
2782
2783 (ix) FEATURE:
2784 (A) NAME/KEY: misc_feature
2785 (D) OTHER INFORMATION:/label= Table 3
2786
2787 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40 :
2788
2789 TGTGGGGAATAGAAATAAATGG
2790

2791 (2) INFORMATION FOR SEQ ID NO:41 :
2792
2793 (i) SEQUENCE CHARACTERISTICS:
--> 2794 (A) LENGTH: 19 base pairs
2795 (B) TYPE: nucleic acid
2796 (C) STRANDEDNESS: double
2797 (D) TOPOLOGY: linear
2798
2799 (ii) MOLECULE TYPE: primer
2800
2801 (ix) FEATURE:
2802 (A) NAME/KEY: misc_feature
2803 (D) OTHER INFORMATION:/label= Table 3
2804
2805 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41 :
2806
2807 CCAGGAGCTCTGTGGGTCA
2808

2809 (2) INFORMATION FOR SEQ ID NO:42 :
2810
2811 (i) SEQUENCE CHARACTERISTICS:
--> 2812 (A) LENGTH: 21 base pairs
2813 (B) TYPE: nucleic acid
2814 (C) STRANDEDNESS: double
2815 (D) TOPOLOGY: linear
2816
2817 (ii) MOLECULE TYPE: primer
2818
2819 (ix) FEATURE:
2820 (A) NAME/KEY: misc_feature
2821 (D) OTHER INFORMATION:/label= Table 3
2822
2823 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42 :
2824

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:23

INPUT SET: S26725.jw

2825 GGCTCCTCATCCTCATTCA
28262827 (2) INFORMATION FOR SEQ ID NO:43 :
28282829 (i) SEQUENCE CHARACTERISTICS:
--> 2830 (A) LENGTH: 20 base pairs
2831 (B) TYPE: nucleic acid
2832 (C) STRANDEDNESS: double
2833 (D) TOPOLOGY: linear
28342835 (ii) MOLECULE TYPE: primer
2836

2837 (ix) FEATURE:

2838 (A) NAME/KEY: misc_feature
2839 (D) OTHER INFORMATION:/label= Table 3
28402841 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:
28422843 GTGGAGGAGGGTGAGTGTGC
28442845 (2) INFORMATION FOR SEQ ID NO:44 :
28462847 (i) SEQUENCE CHARACTERISTICS:
--> 2848 (A) LENGTH: 20 base pairs
2849 (B) TYPE: nucleic acid
2850 (C) STRANDEDNESS: double
2851 (D) TOPOLOGY: linear
28522853 (ii) MOLECULE TYPE: primer
2854

2855 (ix) FEATURE:

2856 (A) NAME/KEY: misc_feature
2857 (D) OTHER INFORMATION:/label= Table 3
28582859 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44 :
28602861 TGTGGCAGGACAGGACGTTC
28622863 (2) INFORMATION FOR SEQ ID NO:45 :
28642865 (i) SEQUENCE CHARACTERISTICS:
--> 2866 (A) LENGTH: 20 base pairs
2867 (B) TYPE: nucleic acid
2868 (C) STRANDEDNESS: double
2869 (D) TOPOLOGY: linear
28702871 (ii) MOLECULE TYPE: primer
2872

2873 (ix) FEATURE:

2874 (A) NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:25

INPUT SET: S26725.raw

2875 (D) OTHER INFORMATION:/label= Table 3

2876

2877 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45 :

2878

2879 TTCAACCTCTGGAGTGGGCC

2880

2881 (2) INFORMATION FOR SEQ ID NO:46 :

2882

2883 (i) SEQUENCE CHARACTERISTICS:

--> 2884 (A) LENGTH: 20 base pairs

2885 (B) TYPE: nucleic acid

2886 (C) STRANDEDNESS: double

2887 (D) TOPOLOGY: linear

2888

2889 (ii) MOLECULE TYPE: primer

2890

2891 (ix) FEATURE:

2892 (A) NAME/KEY: misc_feature

2893 (D) OTHER INFORMATION:/label= Table 3

2894

2895 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46 :

2896

2897 CACCAGAGCAAACCGTCCAC

2898

2899 (2) INFORMATION FOR SEQ ID NO:47 :

2900

2901 (i) SEQUENCE CHARACTERISTICS:

--> 2902 (A) LENGTH: 20 base pairs

2903 (B) TYPE: nucleic acid

2904 (C) STRANDEDNESS: double

2905 (D) TOPOLOGY: linear

2906

2907 (ii) MOLECULE TYPE: primer

2908

2909 (ix) FEATURE:

2910 (A) NAME/KEY: misc_feature

2911 (D) OTHER INFORMATION:/label= Table 3

2912

2913 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47 :

2914

2915 ACAGCCAGACTCCCATTCC

2916

2917 (2) INFORMATION FOR SEQ ID NO:48 :

2918

2919 (i) SEQUENCE CHARACTERISTICS:

--> 2920 (A) LENGTH: 20 base pairs

2921 (B) TYPE: nucleic acid

2922 (C) STRANDEDNESS: double

2923 (D) TOPOLOGY: linear

2924

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:26

INPUT SET: S26725.raw

2925 (ii) MOLECULE TYPE: primer
2926
2927 (ix) FEATURE:
2928 (A) NAME/KEY: misc_feature
2929 (D) OTHER INFORMATION:/label= Table 3
2930
2931 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48 :
2932
2933 TTCTCTTCTCCCTTCACCTT
2934

2935 (2) INFORMATION FOR SEQ ID NO:49 :
2936
2937 (i) SEQUENCE CHARACTERISTICS:
--> 2938 (A) LENGTH: 22 base pairs
2939 (B) TYPE: nucleic acid
2940 (C) STRANDEDNESS: double
2941 (D) TOPOLOGY: linear
2942
2943 (ii) MOLECULE TYPE: primer
2944
2945 (ix) FEATURE:
2946 (A) NAME/KEY: misc_feature
2947 (D) OTHER INFORMATION:/label= Table 3
2948
2949 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49 :
2950
2951 ACACACTTCATGCTCTCTACCC
2952

2953 (2) INFORMATION FOR SEQ ID NO:50:
2954
2955 (i) SEQUENCE CHARACTERISTICS:
--> 2956 (A) LENGTH: 20 base pairs
2957 (B) TYPE: nucleic acid
2958 (C) STRANDEDNESS: double
2959 (D) TOPOLOGY: linear
2960
2961 (ii) MOLECULE TYPE: primer
2962
2963 (ix) FEATURE:
2964 (A) NAME/KEY: misc_feature
2965 (D) OTHER INFORMATION:/label= Table 3
2966
2967 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50 :
2968
2969 CCGCCTATTCCTTTCTCTT
2970

2971 (2) INFORMATION FOR SEQ ID NO:51 :
2972
2973 (i) SEQUENCE CHARACTERISTICS:
--> 2974 (A) LENGTH: 20 base pairs

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:28

INPUT SET: S26725.raw

2975 (B) TYPE: nucleic acid
2976 (C) STRANDEDNESS: double
2977 (D) TOPOLOGY: linear
2978
2979 (ii) MOLECULE TYPE: primer
2980
2981 (ix) FEATURE:
2982 (A) NAME/KEY: misc_feature
2983 (D) OTHER INFORMATION:/label= Table 3
2984
2985 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51 :
2986
2987 GACAAACTCCTGGGAAGCCT
2988

✓

2989 (2) INFORMATION FOR SEQ ID NO:52 :
2990
2991 (i) SEQUENCE CHARACTERISTICS:
--> 2992 (A) LENGTH: 20 base pairs
2993 (B) TYPE: nucleic acid
2994 (C) STRANDEDNESS: double
2995 (D) TOPOLOGY: linear
2996
2997 (ii) MOLECULE TYPE: primer
2998
2999 (ix) FEATURE:
3000 (A) NAME/KEY: misc_feature
3001 (D) OTHER INFORMATION:/label= Table 3
3002
3003 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52 :
3004
3005 ACCTCTGACCCCTGTGAACC
3006

✓

3007 (2) INFORMATION FOR SEQ ID NO:53:
3008
3009 (i) SEQUENCE CHARACTERISTICS:
--> 3010 (A) LENGTH: 20 base pairs
3011 (B) TYPE: nucleic acid
3012 (C) STRANDEDNESS: double
3013 (D) TOPOLOGY: linear
3014
3015 (ii) MOLECULE TYPE: primer
3016
3017 (ix) FEATURE:
3018 (A) NAME/KEY: misc_feature
3019 (D) OTHER INFORMATION:/label= Table 3
3020
3021 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53 :
3022
3023 TGTGGATTTGTGTGCTACGC
3024


✓

3025 (2) INFORMATION FOR SEQ ID NO:54 :


RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:30

INPUT SET: S26725.raw

3026
3027 (i) SEQUENCE CHARACTERISTICS:
--> 3028 (A) LENGTH: 21 base pairs
3029 (B) TYPE: nucleic acid
3030 (C) STRANDEDNESS: double
3031 (D) TOPOLOGY: linear
3032
3033 (ii) MOLECULE TYPE: primer
3034
3035 (ix) FEATURE:
3036 (A) NAME/KEY: misc_feature
3037 (D) OTHER INFORMATION:/label= Table 3
3038
3039 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54 :
3040
3041 CATAAATAGCACCGACAGGGA
3042



3043 (2) INFORMATION FOR SEQ ID NO:55 :
3044
3045 (i) SEQUENCE CHARACTERISTICS:
--> 3046 (A) LENGTH: 20 base pairs
3047 (B) TYPE: nucleic acid
3048 (C) STRANDEDNESS: double
3049 (D) TOPOLOGY: linear
3050
3051 (ii) MOLECULE TYPE: primer
3052
3053 (ix) FEATURE:
3054 (A) NAME/KEY: misc_feature
3055 (D) OTHER INFORMATION:/label= Table 3
3056
3057 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55 :
3058
3059 GGGATGGAGAAGAGTGAGGA
3060



3061 (2) INFORMATION FOR SEQ ID NO:56 :
3062
3063 (i) SEQUENCE CHARACTERISTICS:
--> 3064 (A) LENGTH: 20 base pairs
3065 (B) TYPE: nucleic acid
3066 (C) STRANDEDNESS: double
3067 (D) TOPOLOGY: linear
3068
3069 (ii) MOLECULE TYPE: primer
3070
3071 (ix) FEATURE:
3072 (A) NAME/KEY: misc_feature
3073 (D) OTHER INFORMATION:/label= Table 3
3074
3075 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56 :
3076

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:31INPUT SET: S26725.raw
↓3077 TCCTCACTCTTCTCCATCCC
30783079 (2) INFORMATION FOR SEQ ID NO:57 :
3080

--> 3081 (i) SEQUENCE CHARACTERISTICS:
3082 (A) LENGTH: 19 base pairs
3083 (B) TYPE: nucleic acid
3084 (C) STRANDEDNESS: double
3085 (D) TOPOLOGY: linear
3086

3087 (ii) MOLECULE TYPE: primer
3088

3089 (ix) FEATURE:
3090 (A) NAME/KEY: misc_feature
3091 (D) OTHER INFORMATION:/label= Table 3
3092

3093 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57 :
30943095 ACCCTGATGTTGCCTTGG
3096 ✓3097 (2) INFORMATION FOR SEQ ID NO:58 :
3098

--> 3099 (i) SEQUENCE CHARACTERISTICS:
3100 (A) LENGTH: 20 base pairs
3101 (B) TYPE: nucleic acid
3102 (C) STRANDEDNESS: double
3103 (D) TOPOLOGY: linear
3104

3105 (ii) MOLECULE TYPE: primer
3106

3107 (ix) FEATURE:
3108 (A) NAME/KEY: misc_feature
3109 (D) OTHER INFORMATION:/label= Table 3
3110

3111 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58 :
31123113 GGGGATTTTGCTGTGTGCTG
3114 ✓3115 (2) INFORMATION FOR SEQ ID NO:59 :
3116

--> 3117 (i) SEQUENCE CHARACTERISTICS:
3118 (A) LENGTH: 20 base pairs
3119 (B) TYPE: nucleic acid
3120 (C) STRANDEDNESS: double
3121 (D) TOPOLOGY: linear
3122

3123 (ii) MOLECULE TYPE: primer
3124

3125 (ix) FEATURE:
3126 (A) NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:33

INPUT SET: S26725.raw

3127 (D) OTHER INFORMATION:/label= Table 3

3128

3129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59 :

3130

3131 ATTCCTGCTCCCACCGTCTC

3132

3133 (2) INFORMATION FOR SEQ ID NO:60:

3134

3135 (i) SEQUENCE CHARACTERISTICS:

--> 3136 (A) LENGTH: 20 base pairs

3137 (B) TYPE: nucleic acid

3138 (C) STRANDEDNESS: double

3139 (D) TOPOLOGY: linear

3140

3141 (ii) MOLECULE TYPE: primer

3142

3143 (ix) FEATURE:

3144 (A) NAME/KEY: misc_feature

3145 (D) OTHER INFORMATION:/label= Table 3

3146

3147 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60 :

3148

3149 CACAGAGTGTCCGAGAGGCA

3150

3151 (2) INFORMATION FOR SEQ ID NO:61 :

3152

3153 (i) SEQUENCE CHARACTERISTICS:

--> 3154 (A) LENGTH: 22 base pairs

3155 (B) TYPE: nucleic acid

3156 (C) STRANDEDNESS: double

3157 (D) TOPOLOGY: linear

3158

3159 (ii) MOLECULE TYPE: primer

3160

3161 (ix) FEATURE:

3162 (A) NAME/KEY: misc_feature

3163 (D) OTHER INFORMATION:/label= Table 3

3164

3165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61 :

3166

3167 GGAGATTATCAGGTGAGATGCC

3168

3169 (2) INFORMATION FOR SEQ ID NO:62 :

3170

3171 (i) SEQUENCE CHARACTERISTICS:

--> 3172 (A) LENGTH: 21 base pairs

3173 (B) TYPE: nucleic acid

3174 (C) STRANDEDNESS: double

3175 (D) TOPOLOGY: linear

3176

INPUT SET: S26725.raw

3177 (ii) MOLECULE TYPE: primer
3178
3179 (ix) FEATURE:
3180 (A) NAME/KEY: misc_feature
3181 (D) OTHER INFORMATION:/label= Table 3
3182
3183 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62 :
3184
3185 CAGAGTGTCCGAGAGGCAGGG
3186

✓

3187 (2) INFORMATION FOR SEQ ID NO:63 :
3188
3189 (i) SEQUENCE CHARACTERISTICS:
--> 3190 (A) LENGTH: 20 base pairs
3191 (B) TYPE: nucleic acid
3192 (C) STRANDEDNESS: double
3193 (D) TOPOLOGY: linear
3194
3195 (ii) MOLECULE TYPE: primer
3196
3197 (ix) FEATURE:
3198 (A) NAME/KEY: misc_feature
3199 (D) OTHER INFORMATION:/label= Table 3
3200
3201 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63 :
3202
3203 CGTTGACCCCTCCACCTTGA
3204

✓

3205 (2) INFORMATION FOR SEQ ID NO:64 :
3206
3207 (i) SEQUENCE CHARACTERISTICS:
--> 3208 (A) LENGTH: 20 base pairs
3209 (B) TYPE: nucleic acid
3210 (C) STRANDEDNESS: double
3211 (D) TOPOLOGY: linear
3212
3213 (ii) MOLECULE TYPE: primer
3214
3215 (ix) FEATURE:
3216 (A) NAME/KEY: misc_feature
3217 (D) OTHER INFORMATION:/label= Table 3
3218
3219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64 :
3220
3221 GGGAAAACATGCACCTTCTT
3222

✓

3223 (2) INFORMATION FOR SEQ ID NO:65:
3224
3225 (i) SEQUENCE CHARACTERISTICS:
--> 3226 (A) LENGTH: 20 base pairs

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:36

INPUT SET: S26725.raw

3227 (B) TYPE: nucleic acid
3228 (C) STRANDEDNESS: double
3229 (D) TOPOLOGY: linear
3230
3231 (ii) MOLECULE TYPE: primer
3232
3233 (ix) FEATURE:
3234 (A) NAME/KEY: misc_feature
3235 (D) OTHER INFORMATION:/label= Table 3
3236
3237 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65 :
3238
3239 TAGGGGGTAAAATGGAGGAG
3240

✓

3241 (2) INFORMATION FOR SEQ ID NO:66 :
3242
3243 (i) SEQUENCE CHARACTERISTICS:
--> 3244 (A) LENGTH: 20 base pairs
3245 (B) TYPE: nucleic acid
3246 (C) STRANDEDNESS: double
3247 (D) TOPOLOGY: linear
3248
3249 (ii) MOLECULE TYPE: primer
3250
3251 (ix) FEATURE:
3252 (A) NAME/KEY: misc_feature
3253 (D) OTHER INFORMATION:/label= Table 3
3254
3255 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66 :
3256
3257 ACTAACTCAGTGAATAGGG
3258

✓

3259 (2) INFORMATION FOR SEQ ID NO:67 :
3260
3261 (i) SEQUENCE CHARACTERISTICS:
--> 3262 (A) LENGTH: 20 base pairs
3263 (B) TYPE: nucleic acid
3264 (C) STRANDEDNESS: double
3265 (D) TOPOLOGY: linear
3266
3267 (ii) MOLECULE TYPE: primer
3268
3269 (ix) FEATURE:
3270 (A) NAME/KEY: misc_feature
3271 (D) OTHER INFORMATION:/label= Table 3
3272
3273 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67 :
3274
3275 GGAGCTAGGATAGCTCAAT
3276
3277

✓

SEQUENCE VERIFICATION REPORT

PATENT APPLICATION US/08/836,734

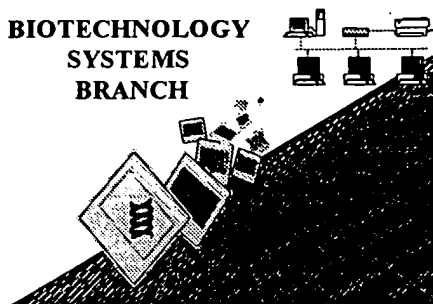
DATE: 06/16/98
TIME: 13:37:41

INPUT SET: S26725.raw

Line	Error	Original Text
48	Entered (3018) and Calc. Seq. Length (0) differ	(A) LENGTH: 3018 base pairs
167	Entered (11451) and Calc. Seq. Length (0) differ	(A) LENGTH: 11451 base pairs
567	Entered (1834) and Calc. Seq. Length (0) differ	(A) LENGTH: 1834 base pairs
645	Entered (14664) and Calc. Seq. Length (0) differ	(A) LENGTH: 14664 base pairs
1152	Entered (5149) and Calc. Seq. Length (0) differ	(A) LENGTH: 5149 base pairs
1165	Unknown or Misplaced Identifier	(B) POSITION : 1303..3764
1170	Unknown or Misplaced Identifier	(B) POSITION : 1631
1176	Unknown or Misplaced Identifier	(B) POSITION : 1848
1182	Unknown or Misplaced Identifier	(B) POSITION : 1853
1188	Unknown or Misplaced Identifier	(B) POSITION : 2004
1194	Unknown or Misplaced Identifier	(B) POSITION : 2248
1200	Unknown or Misplaced Identifier	(B) POSITION : 2364
1206	Unknown or Misplaced Identifier	(B) POSITION : 2382
1212	Unknown or Misplaced Identifier	(B) POSITION : 2771
1218	Unknown or Misplaced Identifier	(B) POSITION : 3018
1224	Unknown or Misplaced Identifier	(B) POSITION : 3372..3373
1230	Unknown or Misplaced Identifier	(B) POSITION : 3533
1236	Unknown or Misplaced Identifier	(B) POSITION : 3609
1242	Unknown or Misplaced Identifier	(B) POSITION : 3616..3619
1248	Unknown or Misplaced Identifier	(B) POSITION : 3665..3666
2235	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2253	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
2271	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2289	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
2307	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2325	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2343	Entered (22) and Calc. Seq. Length (0) differ	(A) LENGTH: 22 base pairs
2362	Entered (19) and Calc. Seq. Length (0) differ	(A) LENGTH: 19 base pairs
2380	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2398	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2416	Entered (22) and Calc. Seq. Length (0) differ	(A) LENGTH: 22 base pairs
2434	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2452	Entered (22) and Calc. Seq. Length (0) differ	(A) LENGTH: 22 base pairs
2470	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2488	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2506	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2524	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2542	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2560	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2578	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2596	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2614	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
2632	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
2650	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
2668	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2686	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2704	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2722	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/836,734DATE: 06/16/98
TIME: 13:37:42**INPUT SET: S26725.raw**

Line	Error	Original Text
2740	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2758	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2776	Entered (22) and Calc. Seq. Length (0) differ	(A) LENGTH: 22 base pairs
2794	Entered (19) and Calc. Seq. Length (0) differ	(A) LENGTH: 19 base pairs
2812	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
2830	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2848	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2866	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2884	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2902	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2920	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2938	Entered (22) and Calc. Seq. Length (0) differ	(A) LENGTH: 22 base pairs
2956	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2974	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
2992	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3010	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3028	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
3046	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3064	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3082	Entered (19) and Calc. Seq. Length (0) differ	(A) LENGTH: 19 base pairs
3100	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3118	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3136	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3154	Entered (22) and Calc. Seq. Length (0) differ	(A) LENGTH: 22 base pairs
3172	Entered (21) and Calc. Seq. Length (0) differ	(A) LENGTH: 21 base pairs
3190	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3208	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3226	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3244	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs
3262	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH: 20 base pairs



Notice of Availability of Checker Program

Applicant Aid for Biotechnology Computer Readable Form (CRF) Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CFR 1.821 through 1.825).

Final rules were published in the *Federal Register* (55 FR18230) on May 1, 1990, and in the PTO *Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software is available via computer downloading, details are below. Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO *Official Gazette*.

The software can be accessed/requested from the following locations:

- 1) Dial-up access through the Internet. Location is <ftp://ftp.uspto.gov>
The software is in current directory: `pub/checker/`
Download all the files. Cost: Free-of-charge
- 3) For diskette copies, mail to: U.S.P.T.O., OEIP, CRYSTAL PARK 3, SUITE 441
WASHINGTON DC 20231

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